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THE LANDEVENNEC GOSPELS

A BRETON ILLUMINATED MANUSCRIPT
OF THE NINTH CENTURY

Presented by EDWARD S. HARKNESS, Esq.

TO THE NEW YORK PUBLIC LIBRARY

BY C. R. MOREY,

Research Professor in Art and Archaeology, Princeton University

THE manuscript recently presented to The New York Public Library by Mr. Harkness is destined to occupy an important place among illuminated books, and among the monuments by which are traced the obscure history in the art of the earlier Middle Ages. It is nothing less than the single venerable example of Breton illumination in the ninth century so far known; its decorated miniatures, initials, and canon-pages reflect in noteworthy manner the Celtic, half-Frankish culture which flourished in the bleak monasteries of the west-coast of *Brittania Minor* in the Carolingian period.

This volume was bought in 1926 from Mr. FitzRoy Fenwick, grandson of Sir John Phillipps, by Dr. A. S. W. Rosenbach, from whom Mr. Harkness acquired it. It was recorded as number 4558 in the Phillipps collection, to which it came from the firm of Payne. Before that it had belonged to the Marquis of Blandford, the fifth Duke of Marlborough, being sold as lot number 1381 in his collection in London in June, 1819, of the "White Knights Library," where it brought 10 guineas and where it was described as "Evangelia Quatuor Latine. A manuscript upon vellum which appears by the initial letters, &c., to have been written in the 10th century. The figures intended to represent the four Evangelists are drawn in the most grotesque and ludicrous style imaginable, and are evi-

dently of very great antiquity. From the Monastery of Como, bound in purple velvet."

The work appears as number 109 in Gregory's list of Vulgate Codices. Quarto in format, measuring 200 × 128 mm., the codex contains 152 folios of rather coarse parchment, with the text of the four Gospels, the prefaces of St. Jerome, twelve pages of canon-tables (tables in which are listed the parallel passages of the Gospels), a *comes* or calendar of readings from the Gospels throughout the year, illuminated initials, and four miniatures without stylistic parallel in mediaeval art. Of these, three represent the symbolic beasts of the evangelists Mark, Luke, and John as human figures, winged, with the heads of the Lion, Ox, and Eagle; the fourth miniature is the Breton version of a *Majestas Domini* — a figure of Christ surrounded by medallions containing the symbolic creatures mentioned above, but this time wingless, and with the addition of the man who stands for Matthew.

These miniatures, reflecting in singular fashion that reduction of style to very meagre terms which characterizes the art of the cultural backwaters of Europe before the Romanesque revival, have much in their innocence of naturalism, their schematic drawing, their evident fondness for strong and primary colors — that reminds one of the illuminated Gospel-books and Psalters executed in the Celtic monasteries of Ireland, Scotland, England, and Wales, from the seventh to the eleventh century, whose rich ornamental repertory included also the interlace that is the most conspicuous motif in the borders of the miniatures of our manuscript. The frames of the canon-tables are however conceived in more continental fashion and they display a use of foliate designs and a crude effort after naturalism in the drawing of their frequent birds and animals that is quite foreign to Irish art, prone as it is to squeeze out all semblance of animate life in the interest of pure design. The illumination thus points to a locality not of the islands but on the continent; strongly influenced by Irish culture but nevertheless not within its immediate periphery.

The dating and placing of such a stylistic mixture offered a pretty problem. In order to arrive at a sound conclusion the work on the script and on the miniatures was kept separate. Photographs of six pages of the text, but of none of the pictures, were sent to Professor E. K. Rand, of Harvard, being selected to represent the beginning, middle, and termination of the manuscript. Professor Rand was asked to give an opinion as to (1) whether the style of writing indicated any wide difference in date between the three portions; (2) what date should be

pdestinata potuit electio. ut nec sic inope uerbi pderet quod
 prius meruerat ingenere. Nā alexandriae ep̄s fuit. cuius p
 singula opus scire & euangelii in se dicta disponere. & discipuli
 nam in se legis agnoscere. & diuinam in carne dñi naturam
 intelligere. quae in nos primum oportet requiri. Dehinc
 inquisita: uolumus agnosci. habentes mercedem exhortati
 onis. qm̄ qui plantat & qui rigat unum sunt. qui autem i
 crescentiam p̄tat dñi est;

EXPLICIT PRAEFATIO

INCIPIT EVANGELIUM SECUNDUM MARCUM





3.

THE OX OF ST. LUKE

ed each of these portions; and (3) where the manuscript was written. His follows:

"Here are my first impressions. The three parts of the New Testament were written by the same hand, or at least by very similar hands, in the same monastery and at the same time. The general period is the latter half of the ninth century, and the place of writing was in the north or north center of France. As I turned over the photographs of the *capitula*, I noticed at least one interesting touch of Irish tendencies. The scribe himself was not an Irishman or an Englishman but he wrote at a monastery somewhat affected by Insular influence."

opinion, later confirmed by an examination of the manuscript itself, has beautifully borne out by an analysis of the *Comes*, the calendar of Gospels which occupies the last sixteen pages. For in running through the lists commemorated in this calendar — a list for the most part conventional and repeating the traditional calendar of Rome — one is struck by finding one of St. Samson, bishop of Dol in Brittany, who is a stranger to the liturgical calendars until he was incorporated in the official list by Usuard, who composed his *martyrologium*, the basis of the present Roman Catholic calendar, in the last quarter of the ninth century. It is true that in a metrical calendar of the eighth century he is celebrated on the 28th of July as in our calendar, but this piece was an insular composition probably meant for English use at York or Ripon, and does not therefore reflect continental usage. One reason for Samson's late appearance in the orthodox Roman calendar was the refusal of the Breton church to acknowledge the sovereignty of Tours as its metropolitan until the middle of the ninth century, when Nominoe, lord of Brittany, sought to make Dol the archiepiscopal see of all Brittany. In spite of denunciations of the stiff-necked attitude of the Breton church by the councils of Toul in 859 and Reims in 1049, the local priesthood stood out for independence until the tenth century, when the "archbishopric" of Dol was degraded to the rank of a bishopric.

In fact that Nantes, Vannes, and Rennes, in the eastern part of the province, acknowledged the claim of Tours, is significant of the ethnic composition of this part of mediaeval France, which is not without its bearing on the miniatures of the Lindisfarne manuscript. Western Brittany was settled in the fifth and sixth centuries by Celtic fugitives from the Saxon invasion of England, a settlement which pushed the Gallo-Roman population into the towns of the eastern section, of which Nantes, Vannes, and Rennes were the chief. The result was a wide

difference between the Latinized population of Upper Brittany and the British emigrés of Léon, Cornouaille, and Domnonie.

These last names are in fact indicative of the character of complete cultural migration which was assumed by this re-peopling of the peninsula. Léon repeats the Welsh Caerleon and is the Lyonesse of Arthurian legend; Cornwall is perpetuated in Cornouaille, and the northern Breton county of Domnonie preserves the old name of Devon. The Britons who came across the Channel to find refuge from Saxon attacks did not sever their connection with their Celtic brethren in Cornwall, Devon, and Wales; above all did they retain the usages of the ancient British church — its peculiar tonsure which shaved the whole forward portion of the head, its different calculation of Easter, the marriage of its clergy, its liturgical idiosyncrasies, and the tribal organization of the church. The Celtic church was primarily monastic, not episcopal; its bishops were appointees and suffragans of a ruling abbot. An abbot in turn was commonly a tribal chieftain; the usual history of the foundation of a monastery records the cession by the head of the tribe of a tract of land to one of his relatives who had embraced the religious life, wherein he could found a monastic settlement and a church, subject politically to the authority of the chief, but otherwise ruling his *lann*, or sacred precinct, and the population thereof, as a tribal leader. Such abbots were the "saints" of Celtic legend, though the use of the word in Celtic lands connoted no more than "religieux" in French. It was long before such Celtic "saints" forsook the ordinary pursuits of a clan-leader; some notion of the peculiar quality of such a monastic establishment may be gathered from the famous battle of 672 between the monasteries of Clonmacnois and Durrow in Ireland in which fell Dermot Duff and two hundred of his men from the monastery of Durrow.

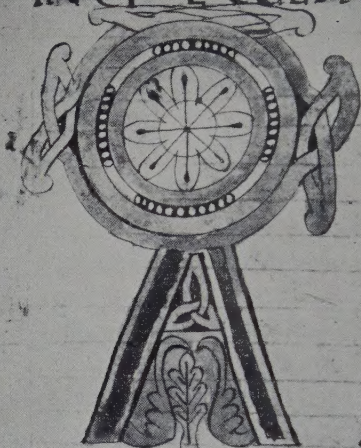
Among the early British settlers in Domnonie was Fragan (Brychan), from Gwent (Monmouthshire) in Wales, who with his wife Gwen and their sons arrived in the bay of St.-Brieuc about 460 and settled near the river Gouet. There he founded his *plou* or commune, remaining to-day as the village of Ploufragan. A son was born to Fragan after his migration, and named Winwaloe; to him fell the function of the tribal "saint." He was first placed in the care of St. Budoc, in his monastery on the isle of Laurée. Here, the legend places his first miracles, among them the spiritual visit paid him (in a vision) by St. Patrick of Ireland. Budoc, impressed by the vision, gave him eleven of his monks and sent him forth to found a monastery, which he finally did, on the coast of the roads of Brest, and which bore the name of Landevennec — explained by M. Loth as actually equivalent to "monastery of Wenn," the latter name being the abbreviated form of Winwaloe. Here the saint performed more prodigies, and died at last in the arms



4.

THE EAGLE OF ST. JOHN

INCP. EVGLII. SECD. LVC.



VONTIN QUIDEM

MULTI CONATI SUNT ORDI
NARE NARRATIONEM QUE
INNOSTRIS OMNIBUS SUNT
SICUT TRADIDERUNT NOBIS QUI
AB INITIO IPSI VIDERUNT ET MI
NISTRARUNT SERMONIS. VITUM
EST ENIM MIHI ASSERERE A PRINCIPIO
OMNIA DILIGENTER EX ORDINE
TIBI SCRIBERE OPTIME THEO
PHILE. UT COGNOSCAS EORUM VERBIS
DE QUIBUS ERUDITUS ES VERITATE.

lv
x

Fuit in diebus herodis regis iudae. sacerdos quidam nomen
fuit deince abia. et exor. illi defiliabus aaron. et nomen
fuit elisabeth. Erant autem iusti ambo ante dominum. incedentes
in omnibus mandatis et iustificationibus domini sine querela. Et non
erat illis filius eo quod esset elisabeth sterilis. et ambo processis
sunt in diebus suis. Factum est autem cum sacerdotio fungeret
zacharias in ordine vicis suae ante dominum. secundum consuetudi
nem sacerdotum. scilicet exire ut vince. sumponeret. Ingressus
est templum domini. et omnis multitudo erat populi orans foris huius
modi. Apparuit autem illi angelus domini. stans ad dexteris altaris
incens.

Et zacharias turbatus est videns. et timor erat
super eum. At autem ait illi angelus. Ne timeas zacharia.
quia exaudita est deprecatio tua. et exor. tua elisabeth.

monks before the altar where he had just finished the celebration of the Mass. His death occurred most probably in 532.

His interest in St. Winwaloe arises from the fact that the religious community in which our Gospel-book was written must have been under his patronage, for his name occurs no less than three times in its calendar. His death is commemorated on March 3d, the translation of his body on April 28th, and on May 1st the feast of the dedication of his church. It is true that Winwaloe, though he seems to be on first acquaintance, enjoyed a fairly wide veneration. In Brittany itself he is honored at Concarneau, Croisic, Ile-de-ocquenolé, and Pierric, to say nothing of the chapels and honors accorded to him in churches at other places. His anniversary is celebrated by the church of Landevennec on April 28th, the day of his translation in our calendar. A church and priory of the diocese of Quimper bear his name; at Penmarch it is attached to the church of St. Guingaloé (one of the numerous spellings of the name), and at Tours. A martyrology in the Vatican Library (lat. 4885), which according to Quentin was composed in Maine, c. 1000, mentions the saint on April 28th, showing the spread of his veneration into the east. The martyrology of Saint-Riquier in the diocese of Amiens also commemorates the translation on April 28th, and the *natalis* of the saint on March 3d as well.

The invasions of the Normans in the ninth and tenth centuries, during one of which the monastery of Landevennec was destroyed, are said by some sources to have caused the dispersion of his relics; relics of the saint were found for the monastery of Blandinberg near Ghent, where the *translatio* is recorded under the date of August 1st. At Montreuil-sur-Mer in Picardy, the discovery of the body of St. Winwaloe is asserted in a document of A. D. 1000, and a relic of 879, together with a *recognitio* of the relics in 1495. A church is dedicated to him at Montreuil under the name of Saint-Waloy, and here also he is honored by three feasts, on March 3d, April 28th, and the third Sunday in May. His cult seems to have been widespread, in the early times when Brittany and the Celtic England were culturally one, in Cornwall.

Another Landevennec, in the modern form of Landevednack, is to be found in Devon, a parish of the deanery of Kerrier in the diocese of Exeter. Towednack, a Cornish parish, derives its name from Winwaloe according to Loth, and several other parishes acknowledged him as their patron. Another parish bears the name Gunwallow, an obvious parallel to the French name for the saint, Gueingol. The Rev. Mr. Goring-Gould is authority for the further information that Winwaloe was

the patron of Tremaine, Tresmere, and of a chapel at Cradock, in St. Cleer, according to the same writer his feast at Gunwallow is on the last Sunday in April, and a further dedication to him may be found in the parish church of Portlemouth in Devonshire which bears the name of St. Onolaus. The *Monasticon Anglicanum* records a relic of the saint (a bone), at Glastonbury, apparently the *reliquiae* of the saint which appears in the list of relics recorded by an eleventh-century hand in the Leofric missal.

Such a multiplicity of centers of his cult is bewildering at first sight, but it will be noted that nowhere among them all, even in cases such as that of Montreuil where three feasts of Winwaloe are celebrated, do we find the significant anniversary of our calendar, of the *dedicatio basilicae* of May 13th, sure sign of a local cult. The basilica was Winwaloe's church at Landevennec. One of the *Lives* of the saint published in the *Acta Sanctorum* of the Bollandists (March, I, p. 254) tells us of it: "sepultusque est in ecclesia lignea, quam ipse laudabili opere jusserat fabricari. Cuius nunc ossa cum magno honore deportata, in maiori ecclesia continentur." This "maior ecclesia" is now in ruins; at the beginning of the last century Winwaloe's tomb was still to be seen in it. The translation celebrated in our calendar, and at Quimper, Montreuil, and in the martyrology of Saint-Riquier on April 28th, refers to the moving of the saint's body from the old wooden church into the new one.

The feast of the 13th of May is therefore a local celebration of Winwaloe's own foundation at Landevennec; it is to be noted that at Montreuil-sur-Mer, the only other place that might claim to be the source of our manuscript, no festival of the kind is found. We have then a manuscript written and illuminated at the abbey of Landevennec in Lower Brittany.

The date of its production may be ascertained also from the calendar. There are obvious *termini a quo* which are too early to be of much help; such is the *Dedicatio ecclesie Sancte Marie ad martyres* of May 13th, which refers to the transformation of the Pantheon at Rome into a Christian church by Boniface IV under the above title in 611; and the "translation of St. Benedict" of July 11, which commemorates the bringing of Benedict's body to the abbey of Fleury (St. Benoît-sur-Loire) in the middle of the seventh century. On November 1st we find the Feast of All-Saints, which according to the evidence of Ado was popularized in Gaul by Louis the Pious in the first half of the ninth century and certainly does not appear in Gallican sacramentaries before 850. The Benedictine entries — the *natalis* of St. Benedict on March 21st and the above-mentioned *translatio* — are to be associated with a letter of Louis the Pious directed to the abbot of Land-



8.
INITIAL OF JOHN'S GOSPEL: EVANGELIARY OF THE
BIBLIOTHEQUE NATIONALE, PARIS



9.
CHRIST IN MAJESTY AND THE SYMBOLS OF THE EVANGE-
LISTS: GOSPELS OF GUNDOHINUS, AUTUN

ec in 818, which ordered the monks thereof to reform their tonsure and rule in accordance with Roman usage and the *regula* of St. Benedict. Thus arrive at a *terminus a quo* of the first half of the ninth century for the of the calendar — and of the manuscript as a whole, in view of Professor's opinion of the unity of date of the calendar with the rest of the codex. Professor Rand has since confirmed this conclusion by observing that the ruling pages toward the end of the Gospel-text is increased in order to provide in this quire for the calendar, from which it is evident that the scribe of the -text had the calendar in mind, and that both texts are of the same date. Above provides sufficient confirmation of Professor Rand's dating, based on the palaeography of the text, in the latter half of the ninth century. Further confirmation of this dating is apparent from an examination of the s, or readings from the Gospels, which are listed for each day in the Cal- but this evidence is too extensive to be treated here; it will be set forth in intended publication of the manuscript that will appear in the next volume of studies; Medieval, Renaissance and Modern."

There can be no question that the miniatures are all of the same date. This is prompted by the suggestion that has been made, that the frontispiece of Christ and the four symbolic beasts may be a later addition imitative of the depicting the symbols of Mark, Luke, and John, which are integral parts of the frontispieces VII, X, and XV. The suggestion acquires superficial weight from the fact that the quires are numbered from the third quire on, the third quire bearing the miniature I, which would indicate that the portion preceding Matthew's Gospel including the frontispiece and the canon-tables, was an after-thought. The numbering of quires is however dependent at times on the distribution of them to the scribe in the process of copying; the scribe that received the task of copying the quires may have numbered his quires without reference to the prefatory matter, and commenced with I. Certainly the colors of the frontispiece, of the canon-tables, and the symbols preceding the Gospels of Mark, Luke, and John, are identical, and the same identity exists as regards the style and technique of the paintings.

These paintings are a singular example of the decay of style in the "dark ages." Of their date, they belong stylistically with the work of the Merovingian period, leaving little trace of the new ideas introduced by the Carolingian renaissance. The reduction of style to such primitive terms makes one think of Pliny the Elder's convenient phrase when he arrived at a point in his account of Greek art and painting where his sources failed him: *cessavit ars!*

The geometric drawing and crude presentment of animate forms reminds one of Irish work. But for a moment only: Irish drawing is devoid of any

tradition of antique naturalism, and reduces nature *a priori* to the requirements of decorative pattern that maintains its ascendancy over naturalism even in late and inferior Celtic work (cf. the rendering of the overthrow of Goliath by David in the Cambridge Psalter of the tenth century). Our Breton artist has enough of the Celtic in him to be devoid of any training in the imitation of nature; but the models that he has copied were Merovingian examples of decadent Latin style, and his effort was to compass as best he could the remnant of naturalism that he found in them. Irish design, within its limitations, has a clean-cut definition, a sureness of purpose, a power of involution, wholly lacking in our miniatures, wherein the figure is reduced to geometric formulae for lack of ability to do otherwise, and the ornament has the unfailing sign of primitive style in the large scale and the simplicity in which its motifs are conceived.

The frontispiece is a familiar conception to mediaeval iconographers. It is not at all of Celtic origin, but took its rise in the Christian East as a rendition of the Vision of Ezechiel which later became the popular form of the Christ of the Ascension. From the Ascension, the Christ in the circular glory surrounded by the symbolic Beasts was extracted to form the Majestas-type of the Saviour in glory. In this form, with the addition of the figures of the four evangelists whom the Beasts were supposed to signify, and two angels attending the enthroned Christ, the type appears in the Codex Amiatinus, a manuscript written and illustrated in the eighth century in the Northumbrian monastery of Wearmouth. But the English illuminator was in this case copying a miniature of a manuscript which had been brought to England from Italy, where it originally belonged to Cassiodorus' monastery in Calabria, so that the type is doubtless of Italian origin. So also was the practice of framing the busts of the symbolic beasts in medallions, although the earliest extant examples of this are to be assigned to southern Gaul. We find a Christ in Majesty in a circular glory with the busts of the Beasts in medallions around it in a manuscript of the library of Monte Cassino, executed in Capua in the first half of the tenth century, and showing the persistence of the type in the country of its origin. In France it first appears in a miniature of the Gospel-book of Gundohinus at Autun, of the middle of the eighth century, and here it takes a form very close to that of our manuscript, save that the Beasts have not the human bodies given them in the Harkness Gospels, and the angels are still with the Saviour. On the other hand a manuscript in the library at Poitiers, dated by Beissel in the early ninth century, provides a miniature showing the enthroned Saviour with the "anthropomorphic" beasts, i. e., with human bodies. This hybrid rendering of the symbols of the Evangelists

to have arisen in Spain or Southern France, but it was widespread in the Merovingian period.

The lay-out of our miniature is however most closely approximated by that of the Gundoehinus Gospels, which Zimmermann is inclined to ascribe to Fleury (Saint-Benoît-sur-Loire), the chief Benedictine monastery of central France. The ornament of this manuscript also much resembles that of our Gospels, and the naturalism of its figure-drawing indicates the sort of Merovingian model which our artist may well have drawn his tenuous inspiration. This frontispiece will be the subject of special treatment by A. M. Friend in the publication of the manuscript in *Art Studies*, since he has found it of interest and value in his study on the evolution of the mediaeval representations of the evangelists. An especially curious feature of it is the repetition of the phrase (*re*) *surrexit Dominus* enlarged in the case of John's eagle to *surrexit Dominus vere*, which is written on the books of the evangelists; it seems to echo the sequence of Easter Sunday in the Roman ritual: *Scimus Christum surrexisse a mortuis vere*. The same notion reappears on the books held by the symbols of Mark, Luke, and John at the beginning of their Gospels.

Noteworthy on the border of this frontispiece are the intertwined loops which decorate the frames of the symbols of Luke and John on folios 75 and 115. These loops, with their effect of a voluted capital, appear in the decoration of the Anglo-Celtic Gospels of Lindisfarne, of the early eighth century, but they are mainly characteristic of the school of illumination which bears the name of Hiberno-Saxon, and whose style may be found throughout the ninth and tenth centuries in the less progressive scriptoria of Western France, from Belgium to the Pyrenees, and even in Spain in the tenth and eleventh centuries. The motif is derived from such Celtic forms as those mentioned of the Gospels of Lindisfarne, but is much simplified by the Franco-Saxon artists, whose rendering of it has in our case been reduced by our artist to still lower terms. A fair parallel to the motif here employed is afforded by the looped interlaces projecting from the side of the initial I's in an illuminated Gospel-book, now in the Bibliothèque Nationale at Paris, which in the ninth century was in Tours. Toward Tours point also the ivy-leaves executed in the corner-pieces of our border — the motif in this position being very characteristic of the Carolingian illumination.

At the top of the lion's symbol, the lion, is flanked by foliate motifs that never occur in Celtic illumination. The left hand holds a leafy branch that is as hard to interpret as the similar motif in the hand of the Christ of the frontispiece, unless we suppose the case of the lion that our artist has misunderstood a quill held by the symbol.

in the original miniature which he was copying. Wings are added to the beast here, and colored with that strong contrast of light and dark tones in the manner of a plaid which is frequent in the Merovingian ornament of France.

Luke's ox, painted at the beginning of his Gospel, possesses a snout that is not far removed from the beak of John's eagle and might deceive us were it not equipped with horns and labelled. The ox is winged like the lion of Mark, and both this miniature and the eagle of John have borders of identical execution with that of the frontispiece — sufficient proof of the unity in date of all these miniatures.

The initials of the manuscript have a general resemblance to those used at the monastery of Corbie in Picardy and in scriptoria under its influence; the Q which is the initial of Luke resembles the Corbie form. They are not, however, of a strictly "Corbie" type. Their leaf-work is heavier, and the filling of the L which opens the Gospel of Matthew is an interlace of the ample sort that is used in the Gundohinus Gospels of Autun, mentioned above as affording the best parallel for the iconographic lay-out of the frontispiece. When we turn to the repertoire of ornament presented by the canon-tables, the resemblance to the Gundohinus-codex becomes more marked. The most conspicuous motif that the two manuscripts have in common is the coarse palmette found in many of our canon-tables either in the arch or on the colonnettes; it is used in the same form in the arch inclosing the figure of St. John, and in the canon-tables, of the Gundohinus Gospels. A curious feature of the ornament in the latter manuscript is a kaleidoscopic motif composed of vari-colored angular patches, apparently the degenerate form of what was originally a garland-design; one of the canon-tables of our manuscript shows a colonnette with a similar decoration. Also common to both manuscripts as a filling-motif for the shafts of the colonnettes is a heavy rope-pattern.

Such resemblances carry one not very far in the direction of determining the origin of the style of our manuscript; Merovingian ornament is at once very much alike all over France and surprisingly fertile of invention. In spite of Zimmermann's attempt to classify the Merovingian manuscripts in his *Vorkarolingische Miniaturen*, it is difficult as yet to isolate the schools with any certainty. The birds and beasts that enliven some of the canon-pages in our manuscript may in one or another of their aspects be paralleled in several of Zimmermann's groups. Nevertheless the indications above-noted seem to point to Tours, Fleury, and in general to the lower valley of the Loire as the source of the style which our transplanted Celt did his best to assimilate. The introduction of the Benedictine rule into Landevennec in the ninth century must have brought in with it new rule- and service-books; these would naturally come from the see that claimed spiritual

on over Brittany, viz., the archbishopric of Tours. From old pre-Carolingian models produced in the neighborhood of Tours, and specifically in its chief miniature center at Fleury, we may well believe that our artist copied the illustrations of the Harkness Gospels.

However much a copyist, he seems to have struck at least one original and native bird. Birds are the stock ornament of Merovingian art, but here they invariably appear with fish in beak or talons. If such a motif is to be found in other French manuscripts of Merovingian style, I do not know them. May we not see in this a reminiscence of the gulls of the Breton coast, a motif familiar to a race of fishermen? We may also recognize in the meagre but sturdy style of these miniatures the attenuated culture of a hardy sea-faring folk, among whom still lives to-day, nowhere else in Europe, the simple barbaric faith of early mediaeval Christianity?



THE SWALES BASEBALL COLLECTION

MRS. BRADSHAW HALL SWALES, of Washington, D. C., has presented to the Library, in memory of her late husband, the large and important collection of material relating to baseball brought together by him over a period of many years.

Bradshaw Hall Swales (1875-1928) was a born collector. His interest in baseball began in the typical way — from playing the game as a member of the Washington High School team, and perhaps later when a member of the Detroit Athletic Club. After this active participation, his interest in the sport found expression in frequent attendance at baseball games, and in the collection of the statistical data that made up his library on the subject. His training in scientific method led him to realize the value of records, and also the ephemeral character of the material dealing with the history of the great American game. Consequently, his baseball collection reflects a thorough understanding of the importance of the preservation of minutely detailed records.

Swales was keenly interested also in bird study, and was the moving spirit and organizer of the Baird Ornithological Club of Washington, D. C. A graduate of the University of Michigan in 1896, with the degree of LL.B., he received the degree of LL.M. in 1897, and from 1912 until his death was a member of the governing board of its Zoological Museum. To this Museum he gave his collection of about 2,000 bird skins, and, by bequest, his very considerable ornithological library. In 1918, he was appointed honorary custodian of the section of

bird's eggs in the National Museum at Washington, and in 1921 was made honorary assistant curator of birds. While holding this latter office, he established the Swales Fund for the study of rare, foreign birds. Mr. Swales was a member of many ornithological and other scientific societies. His own publications in ornithology number over one hundred titles. He was also deeply interested in anthropology, especially in relation to the American Indian, and in the early history of the West.

The baseball collection comprises 460 volumes, 37 pamphlets, 26 periodicals, 39 folders, also newspaper and manuscript material. Included are *Baseball Magazine*, May, 1908 – January, 1928; *Sporting Life*, vols. 1–69, 1883–1917; *The Sporting News*, 1918–1919 (in one volume) and scattered numbers of 1915 and 1917; card catalogues of records of individual baseball players (filed in two cabinets); baseball rosters (one volume); National League rosters, 1876–1930 (complete to 1926); rosters of American League, Western League, Northwestern League, American Association, Union Association, Players League (1890), Federal League, International League (1886), Southern League (1885–1926), Pacific Coast League (1899–1926), roster of Baseball Club (1871–1916); 144 volumes of scrapbooks, also various books relating to baseball. Some of the scrapbooks were purchased by Mr. Swales, the remainder were made by him through long, careful labor. The card files, which fill many drawers, were assembled and arranged by Mr. Swales, and, together with the rosters of the various league teams, constituted a long, absorbing task.

In the summer of 1921 the Library received from Mrs. A. G. Spalding, of Point Loma, California, as a memorial of her late husband, the notable "Albert G. Spalding Collection" of material relating to baseball and other sports. It is most gratifying to observe how the Swales and Spalding collections supplement and fulfill each other, and how much richer and more useful the Library's collection of material relating to sport, which it has been acquiring for many years, is made through the addition of the important collection of precise, detailed baseball information compiled and brought together through the diligence and farsightedness of Bradshaw Hall Swales.

The cataloguing of the collection and its preparation for the shelves will require considerable time, and it will therefore not be ready for use before next year.

THE AUTHORS' LEAGUE MEMORIAL LIBRARY

By R. W. G. VAIL

WHEN the Authors' League of America was organized in 1912 it was merely a business association of authors, artists, dramatists, screen writers, composers, banded together for the legal protection of the professional members.

The League has greatly improved the status of authors in relation to publishers, by inaugurating a standard form of contract, by insisting on payment of manuscripts on acceptance, and the prompt return of unsold manuscripts. It has worked hard for the improvement of the copyright law and for the checking of censorship; it has maintained a clearing house for professional information and has done much to arbitrate disputes between authors and publishers, has maintained a fund for the temporary relief of authors in financial distress. The League, now a vigorous seventeen-year-old, includes among its members over two thousand members practically every author of standing in the country.

Mr. Arthur Train was elected president of the Authors' League in 1928, and published his: "Apologia pro officio suo" * in which he summarized the past achievements and future hopes of the League. Among the suggestions which he made in this article was the following:

"A second project of which I should welcome the consummation would be the creation of a repository of signed copies of the first editions of American authors, the collection to be housed in an appropriate reading or public library. I feel sure that all American publishers would be glad to co-operate with the League in furnishing such first editions, and an arrangement could be made with foreign literary societies in all countries for the exchange of similar copies, so that in time we should have a unique and priceless collection of the works of all modern authors to which, when possible, might also be included the original manuscripts. Every member of the League would deem it not only an honor to have his work thus perpetuated, but a duty to contribute towards the compilation of a library which, in a few years, would become the National Literary Memorial of immense value and incalculable interest."

Authors' League Bulletin, November, 1928, p. 5-9, also issued in separate form.

Mr. Train's suggestion met with the hearty approval of this Library which has been for years the laboratory of the nation's authors, artists, dramatists, screen writers, and composers. From the time of the founding of the Astor Library, with Washington Irving as its first president, The New York Public Library and



THIS SIGNED FIRST EDITION
IS PRESENTED BY THE AUTHOR
TO
THE AUTHORS LEAGUE MEMORIAL LIBRARY

its predecessors have been particularly friendly and helpful to the creative artists of the country, thousands of whom have used the resources which they found in the old Astor and Lenox libraries or in the present building at Fifth Avenue and Forty-Second Street.

On January 2, 1929, an agreement became effective by which the Authors' League is to place on deposit with The New York Public Library original manuscripts and inscribed first editions of the writings of its members, each containing

tractive bookplate designed for this special collection by Mr. Rockwell. The Library undertakes to preserve the collection for the use of future biographers and literary historians, as well as for the convenience of the members of the League.

The first volume received under this arrangement was, very appropriately, a copy by the president of the League: "The Lost Gospel. By Arthur Train. With an introduction by James Dougherty." New York: Charles Scribner's Sons, 1925. 12°. The author's presentation inscription is as follows:

"For the Authors' League of America Memorial Library this autographed first edition of 'The Lost Gospel' is herewith sent to The New York Public Library in the hope that it may be the first book deposited in the nucleus of a National Literary Memorial composed of books and manuscripts by American authors which will prove of incalculable value and of even greater interest. [Signed] Arthur Train. [Dated] Nov. 25, 1928."

A small but interesting and varied nucleus for the Authors' League Memorial Library has already been turned over to The New York Public Library, and others are on the way. Though a small beginning, this collection is sure to grow, with the aid of our American authors and their publishers, an important contribution to the history of American literature.

AUTHORS' LEAGUE MEMORIAL LIBRARY

RECEIVED TO SEPTEMBER 1, 1929

SON, PAUL L. With the eagles. New York: D. Appleton and Company, 1929. ix, 120 p. 12°.

OR, RALPH HENRY. Grantham gets on. New York: D. Appleton and Company, 1929. 120 p. 12°.

NT, PERRY. L'abstention des États-Unis: illusion de l'isolement. Paris: Payot, 1928. 111 p. 12°.

égalité politique et tolérance religieuse. Williams à Jefferson. Paris: Payot, 1928. 149 p. 8°.

national isolation an illusion... New York: G. P. Putnam's Sons, 1925. xii, 631 p. 8°.

political equality: religious toleration. Williams to Jefferson. New York: G. P. Putnam's Sons, 1927. 149 p. 12°.

a politique des États-Unis et l'Europe (1929). Paris: Payot, 1925. 383 p. 8°.

histoire d'une loi... [Publicity of campaigns]. Paris: Payot, 1926. 215 p. 8°.

accompanying reproduction.

— Return to secret party funds. Value of Reed Committee. New York: G. P. Putnam's Sons, 1927. xlv, 211 p. 12°.

— Survival of the democratic principle... New York: G. P. Putnam's Sons, 1926. vi, 334 p. 8°.

— Le tarif douanier et les partis aux États-Unis (1789-1927). Paris: Payot, 1928. 111 p. 8°.

BOYLAN, GRACE DUFFIE (Mrs. Louis Napoleon Geldert). The Pipes of Clovix... Illustrated by Emily Hall Chamberlin. Boston: Little, Brown and Company, 1928. 258 p. illus. 12°.

— Thy son liveth. Messages from a soldier to his mother. Transcribed by Mrs. Louis Napoleon Geldert. Boston: Little, Brown and Company, 1927. 84 p. 12°.

COHEN, OCTAVUS ROY. The valley of Olympus. New York: D. Appleton & Company, 1929. 298 p. 12°.

CORNELL, HUGHES. Born rich. Original typed manuscript, signed. 292 p. 4°.

— Born rich. Philadelphia: George W. Jacobs & Company [1924]. 307 p. front. 12°.

— Dotty seaweed. Verses, Hughes Cornell. Illustrations, Bertha M. Boye. [San Francisco:] Philopolis Press [1908]. [35] p. illus. 4°. Illustrations hand colored by author.

— Kenelm's desire. Original typed manuscript with autograph corrections and signed inscription. 648 p. 12°.

— Kenelm's desire. Boston: Little, Brown and Company, 1906. 388 p. 12°.

— Marketing Deb. Frontispiece by William C. Hoople. New York: The Macaulay Company [1926]. 315 p. front. 12°. Author's inscription on title-page explaining inverted name on cover. Signed card "From Mary Pickford" pasted on flyleaf.

DOWNEY, FAIRFAX. The Grande Turke. Su-leyman the Magnificent, Sultan of the Ottomans. New York: Minton, Balch & Company, 1929. 333 p. illus. 8°.

GHENT, W. J. The road to Oregon. A chronicle of the great emigrant trail. New York: Longmans, Green and Co., 1929. xvi, 274 p. illus. 8°.

LINDSAY, VACHEL. The litany of Washington Street. New York: The Macmillan Company, 1929. 121 p. illus. 8°.

MASTERS, EDGAR LEE. The fate of the jury. An epilogue to Domesday Book. New York: D. Appleton and Company, 1929. 173 p. 8°.

MONTGOMERY, ROSELLE MERCIER. Many devices. New York: D. Appleton & Company, 1929. 150 p. 12°.

MUNDY, TALBOT. Queen Cleopatra... Indianapolis: The Bobbs-Merrill Company [1929]. 426 p. 12°.

PENDEXTER, HUGH. The gate through the mountain. Indianapolis: The Bobbs-Merrill Company [1929]. 320 p. 12°.

TRAIN, ARTHUR. The lost gospel. With a frontispiece by James Dougherty. New York: Charles Scribner's Sons, 1925. 77 p. Colored front. 12°. Presentation inscription on flyleaf. The first book given to the Authors' League Memorial Library.

— Apologia pro officio suo. An inaugural. 5 p. 8°. (Reprinted from the Authors' League Bulletin, November, 1928, p. 5-9.)

WAGNER, CHARLES A. Nearer the bone. With an introduction by John Erskine. New York: Coward-McCann, Inc., 1929. 109 p. 12°.

NEWS OF THE MONTH

GIFTS

URING the month of August, 1929, there were received as gifts 3,197 volumes, 12,646 pamphlets, 119 maps, and 24 prints. Among the many interesting items were the following:

CELLANEOUS: From M. Siméon del Monte, Brussels, Belgium, came a copy of a sumptuously illustrated volume, "La Collection Del Monte," by Gustav Del Monte, Vienna, 1928. Mr. Arnold Genthe gave two of his works, as follows: "Mrs. Duncan, Twenty-four Studies by Arnold Genthe" . . . London, 1929, and "De Lvcani Codice Erlangensi, Dissertatio Philologica . . . by Arnoldus Genthe, Ienae, Germany, 1894." From Son Altesse le Prince Youssouf Kamal, of Egypt, came the "Arabian translation of the Geography of Ptolemy, both text and map, being a complete reproduction of the manuscript by Prince Youssouf Kamal du Caire. This manuscript was discovered during research work undertaken for the Prince in Constantinople." It completes vol. 2 fasc. 1 of "Materia cartographica Africae et Aegypti." Vice-Amiral Dartige Du Four, of Grignoneux-Dordogne, France, gave the Library an autographed copy of his "Heures Lointaines, Souvenirs d'un Marin," Paris [1927]. From Sig. Ferrarini, Thiene, Vicenza, Italy, came a copy of his work, "Voli Per Il Cielo, con presentazione di Benito Mussolini, 134 Illustrazioni — 3 carte topografiche e un autografo," Milan, 1929.

COLLECTIONS: From Mr. Edward Schuster came an interesting collection of American newspapers, and other material, in all, 3 volumes, 3 pamphlets, 3 periodicals, and 2,400 newspapers. From Mr. T. J. Wolff came 30 volumes of pamphlets relating to the Philippines. The Hon. Clarence G. Galston, Judge Eastern District of New York, gave five volumes of the "Diario de Jurisprudencia del Distrito y Territorios Federales, Mexico," 1907-1909. Mr. C. L. Mantell, Brooklyn, came seven pamphlets on tin and tin metal. Mrs. John Morris gave the Library nine volumes and six single numbers of "The Old English" magazines published in London between 1857 and 1872.

RECENTLY PRINTED AND LIMITED EDITION BOOKS: From the Black Sun Press, Paris, came copies of "Tales Told of Shem and Shaun, Three Fragments of a Story in Progress," by James Joyce, Paris, 1929, and a miniature copy of "The Black Sun," by Harry Crosby, Paris, 1929 (one of 100 copies printed on Japan paper at the Black Sun Press). From Messrs. Johnck and Seeger, San Francisco, came a copy (No. 170 of 250 printed) of "Elegy Written in a Country Church-

yard by Thomas Gray," San Francisco, 1928. [Designed and printed by Johnck & Seeger in December, 1928, handset in Cloister lightface type, presswork by Lawton R. Kennedy, decorations by W. R. Cameron.] Mr. H. B. Mackintosh, Redhythe, Elgin, Scotland, gave copies of his privately printed works, "The Northern or Gordon Fencibles, 1778-1783," 1929; and "The Inverness Shir Highlanders or 97th Regiment of Foot, 1794-1796," Elgin, 1926. From Mr. Benjamin Musser, Atlantic City, N. J., came autographed copies of the following of his works, printed in limited editions: "The First JAPM Anthology, Selected by Readers from the First and Second Volumes of JAPM: The Poetry Weekly [edited with a foreword by Benjamin Musser]," Atlanta [1929]; "Dipped in Aloes, A Book of Unpleasant Poems," Atlanta [1929]; and "Riding at Anchor, Verses Writ in Water," New York [1929].

AMERICANA: Mr. William W. Bartlett, Eau Claire, Wisconsin, gave the Library a copy of his work, "History, Tradition and Adventure in the Chippewa Valley," Chippewa Falls, Wisconsin (c. 1929). From Mr. George M. Battey, Jr., came a copy [No. 785] of his work, "A History of Rome and Floyd County . . .," Volume one, Atlanta, 1922. From Lt.-Col. Frank Stephen Meighen, Montreal, Canada, came a copy of the privately printed work, "A Brief Outline of the Story of the Canadian Grenadier Guards and the first months of the Royal Montreal Regiment in the Great War, Told in an Anthology of Verse and Prose, Compiled by an Officer of the Guards. . .," Montreal, 1926.

MUSIC: From Dr. Arthur Selwyn Brown came a collection of orchestra parts and miscellaneous sheet music, comprising in all 44 volumes, 275 pamphlets, and 1 periodical.

MANUSCRIPTS: Dr. Thomas Ollive Mabbott gave the Library a manuscript of "Songs against Death," by Sidney Lanier, in the handwriting of Mrs. Lanier, with accompanying letters on the subject.

ADDITIONS AND USE OF THE LIBRARY DURING AUGUST, 1929

DURING the month of August, 1929, there were received at the Library 24,262 volumes and 15,293 pamphlets. (These include the additions to both Reference and Circulation Departments.) The number of volumes issued for home use by the Circulation Department was 746,035.

The total number of recorded readers in the Reference Department, Central Building, was 122,398, no record being kept of the use of books on the open reference shelves. The estimated number of readers and visitors at the Central Building was 239,000 — arrived at by adding 15 per cent to the incomplete count made by the doormen (207,586).

NEW PERIODICALS

- Technische Versuchsanstalt. Berichte.** Austria. Irregular.
Organ of Technische Hochschule, Vienna.
- American checker monthly.** Oklahoma. Oklahoma. Monthly.
Organ of The American Checker Association.
- American University. Bulletin.** Washington, D. C. Monthly.
Published by American University, Washington.
- d'histoire économique et sociale.** Quarterly.
- Arkhivsk. — Gubernski ispolnitel'nyi komitet.** Institut promyshlennykh izyskaniy. Archangel, SSSR. Irregular.
- Arkhivsk. — Gubernski ispolnitel'nyi komitet.** Archangel, SSSR. Irregular.
- Annuaire général de la noblesse titrée.** Quarterly.
Published by Institut héraldique international.
- Arbetsjournal.** Vasteras, Sweden. Monthly.
Published by Allmänna Svenska Elektriska Aktieförbundet.
- Arbetsjournal.** Vasteras, Sweden. Monthly.
Published by Allmänna Svenska Elektriska Aktieförbundet.
- Journal of Community Chests and Councils.** Bulletin. New York. Irregular.
- Commissione nazionale per gli interessi del Mezzogiorno d'Italia.** Relazione sull'attività dell'Associazione. Roma, Italy. Semi-annually.
- Trudoviki zhurnal.** Moscow, SSSR. Monthly.
- Trudoviki zhurnal.** Moscow, SSSR. Monthly.
Published by Gosudarstvennaya tsentralnaya knizhnyy palata.
- Travail.** Port-au-Prince, Haiti. Monthly.
Published by Service technique du Département de l'Agriculture et de l'Enseignement professionnel.
- New York.** Monthly. 9 issues (Oct. 1929).
Published by National Child Welfare Association.
This is a continuation of Educational Information Service.
- Revue Belge.** Bruxelles, Belgium. Monthly.
- Canada. — Bureau of Statistics.** Canadian grain statistics. Ottawa, Canada. Weekly.
Published by Canada. — Department of Trade and Commerce.
- Canada. — General statistics.** Monthly review of business statistics. Ottawa, Canada. Monthly.
- Canada. — Department of Trade and Commerce.** Commercial intelligence journal. Apple supplement. Ottawa, Canada. Irregular.
- Canada. — Forest Service.** Circular. Ottawa, Canada. Irregular.
- Canterbury cathedral chronicle.** Canterbury, England. Quarterly.
Published by the Friends of Canterbury Cathedral.
- The Century review.** Calcutta, India. Monthly.
- Chamber of Commerce of the United States.** Insurance Department. Health bulletin. Washington, D. C. Irregular.
- Citizens radio call book magazine and scientific digest.** Chicago, Ill. Quarterly.
- The City.** San Francisco, Calif. Irregular.
Published by San Francisco Bureau of Governmental Research.
- Civiltà moderna.** Firenze, Italy. Monthly.
With Jan. 1929 issue the above supersedes Levana, which was a bi-monthly.
- Compañía administradora del guano.** Boletín. Lima, Peru. Monthly.
- Dajar (The Cathedral).** Union City, N. J. Monthly.
Published by Holy Cross Armenian Apostolic Church.
- Der Deutsche Rundfunk.** Berlin. Weekly.
- Dominican Republic. — Estación Nacional Agronómica y Colegio de Agricultura.** Serie E. — Entomología y zoología. Moca, R. D. Irregular.
- The Draughts review.** Hull, England. Monthly.
- Dresden. — Gewerbekammer.** Mitteilungen. Dresden, Germany. Bi-monthly.
- Ecuador agrícola.** Guayaquil, Ecuador. Monthly.
- Erie, Pa. — Health Board.** The city health. Erie, Pa. Monthly.
- Erie municipal facts.** Erie, Pa. Irregular.
Published by Erie County Taxpayers Association.
- Federated India.** Tondiarpet, Madras, India. Weekly.
- Flambeaux.** New York. Irregular.
Published by Morris Evening High School.

Geofizicheski sbornik. Leningrad, SSSR.

Irregular.

Published by Glavnaya geofizicheskaya observatoriya.

Geomagnitnyi i electrometeorologicheski byulleten'. Leningrad. Irregular.

Published by Glavnaya geofizicheskaya observatoriya.

Glavnaya geofizicheskaya observatoriya. Byulleten' pogody v SSSR. Leningrad. Every 10 days.

— Izvestiya. Leningrad, SSSR. Irregular.

Glavnaya Geofizicheskaya Observatoriya. — Postoyannaya aktinometricheskaya komissiya. Byulleten'. Leningrad, SSSR. Irregular.

The Ground hog. Marion, Ohio. Monthly. Published by Marion Steam Shovel Company.

Hamburg (city), Germany. — Handelskammer. Mitteilungen. Hamburg. Semi-monthly.

Honolulu mercury. Honolulu, T. H. Monthly.

Hungarian General Creditbank. Economic report. Budapest, Hungary. Monthly.

Instituto Internacional Americano Protección a la Infancia. Boletín. Montevideo, Uruguay. Quarterly.

International system news. New York. Monthly.

Published by International Telephone and Telegraph Corporation.

Intuicion. New York. Monthly.

Iowa publisher including Bulletin of Iowa Press Association. Iowa City, Iowa. Monthly.

Published by School of Journalism, University of Iowa.

The Jewish ledger. Rochester, N. Y. Weekly.

Kanadski Glas. Winnipeg, Manitoba. Weekly.

Klimat i pogoda. Leningrad, SSSR.

Bi-monthly.

Published by Glavnaya geofizicheskaya observatoriya.

Knizhnaya letopis. Spetsialnyi vypusk. — Special edition. Moscow, SSSR. Quarterly.

Published by Gosudarstvennaya tsentralnaya knizhnaya palata.

Lectures. Paris. Monthly.

The Liberal Jewish monthly. London. Monthly.

Published by Jewish Religious Union for the Advancement of Liberal Judaism.

Der Maschinen-Export-Markt. Berlin. 16 nos. a year.

The Master locksmith. New York City. Monthly.

Published by the American Association of Master Locksmiths.

Meteorologicheskoye obozreniye. Leningrad, SSSR. Monthly.

Published by Glavnaya geofizicheskaya observatoriya.

Mexico. — Secretaría de Educación: Departamento de Bibliotecas. Boletín de el libro y el pueblo. Mexico, D. F. Monthly.

Minerva-Könyvtár. Budapest, Hungary. Irregular.

Published by Minerva Tarsasag.

Minneapolis, Minn. — Public Library: Business and Municipal Branch. Occasional notes. Minneapolis, Minn. Irregular.

Missouri public health news. Jefferson City, Mo. Monthly.

Published by Missouri State Board of Health.

La Moda maschile. Milano, Italy. Monthly.

Moskauer Rundschau. Moscow, SSSR. Weekly.

Le Mouvement sanitaire. Paris. Monthly.

Official organ of Syndicat des médecins hygiénistes français et de la Société de médecine publique.

Mujeres españolas. Madrid. Semi-weekly.

Nagoya, Japan. — Chamber of Commerce and Industry. Monthly report of economic statistics. Nagoya, Japan. Monthly.

National lumber trade barometer. Four weekly supplement. Washington, D. C. Four-weekly.

Published by National Lumber Manufacturers Association, Inc.

— Quarterly supplement. Washington, D. C. Quarterly.

Published by National Lumber Manufacturers Association, Inc.

Nauchno-populyarnaya biblioteka po istorii revolyutzionnovo dvizheniya v ocherkakh vospominaniyakh i biografiyakh zhurnal "Katorga i ssylka." Moscow. Semi-monthly.

Published by Vsesoyuznoye obshchestvo politkatorzhn i ssylno-poselentzev.

New Jersey State Chamber of Commerce. Bulletin. Newark, N. J. Irregular.

New York State. — Bridge & Tunnel Commission. Statement of total traffic, operation of the Holland Tunnel from November 13, 1927... New York City. Monthly.

— Tabulation of traffic, toll receipts and miscellaneous revenues for the month. The Holland Tunnel. New York. Monthly.

Oregon. — Engineering Experiment Station. Bulletin series. Corvallis, Oregon. Irregular.

Published by Oregon State Agricultural College.

- re-mer.** Paris. Quarterly.
- is-New York.** Paris. Monthly.
- aso.** Firenze, Italy. Monthly.
- Petite illustration.** Tourisme. Paris. Weekly.
- Delta Epsilon news.** New York. Quarterly.
Published by The Phi Delta Epsilon Fraternity.
- Ippine Islands.** — Weather Bureau. Seismological bulletin. Manila, P. I. Semi-annual.
- ysica.** Hague, Netherlands. 10 to 12 times a year.
- cadilly.** London. Weekly.
- land.** — Główny Urząd Statystyczny. Statystyka cen. Warszawa, Poland. Monthly.
- ellen und Studien zur Geschichte der Mathematik.** Abteilung B. Studien. Berlin, Germany. Irregular.
- Radio Bildfunk Fernsehen für Alle.** Stuttgart, Germany. Monthly.
Organ der Süddeutsche Radioamateure and Des Oberdeutscher Funkverbandes...
Originally under title *Radio für Alle*.
- Radio tree talks.** Stamford, Conn. Irregular.
Published by The Bureau of Public Relations, Bartlett Tree Research Laboratories.
- assegna numismatica.** Roma, Italy. Monthly.
- Red needle.** London. Monthly.
Published by British Section of the International Needle Workers' Propaganda Committee.
- Research University record.** Washington, D. C. Quarterly.
Published by Research University, Washington, D. C.
- revue de géographie physique et de géologie dynamique.** Paris. Quarterly.
Published by Paris. Université: Faculté des sciences: Laboratoire de géographie physique.
- revue du vrai et du beau.** Paris. Semi-monthly.
- ome (province), Italy.** — Camerea di Commercio e Industria di Roma: Ufficio di Statistica. Listino dei prezzi all'ingresso. Roma, Italy. Weekly.
- er Šabos.** Riga, Latvia. Bi-monthly.
Text in Hebrew.
- m's way to big pay.** Mount Morris, Illinois. Monthly.
The above supersedes *How to sell handbook*.
- science wonder stories.** New York. Monthly.
- mer.** Paris. Monthly.
The above is a supplement to *Servir*.
Published by Ligue patriotique des françaises.
- Servir.** Paris. Monthly.
Published by Ligue patriotique des françaises.
- Société des ingénieurs de l'automobile.** Journal. Paris. Monthly.
- Southwestern railway journal.** Fort Worth, Texas. Monthly.
- Southwestern resources.** San Antonio, Texas. Monthly.
- Türkische Handelskammer für Deutschland.** Zeitschrift. Berlin. Monthly.
- University of Chicago.** — School of Commerce and Administration. Studies in business administration. Chicago, Ill. Quarterly.
- University of Wyoming.** — College of Agriculture. Summary of agricultural extension work. Laramie, Wyoming. Monthly.
- Vida nueva.** Santiago de Chile. Monthly.
Published by Liga nacional contra el alcoholismo.
- Vladimir (SSSR) Gubernski ispolnitel'nyi komitet i kooperatziya.** Izvestiya. Vladimir. SSSR. Weekly.
- Volkswirtschaftliche Blätter.** Berlin-Wilmersdorf, Germany. Monthly.
Published by Reichsverband der deutschen Volkswirte.
- Die Werbung.** Berlin. Monthly.
Supplement to *Deutsche allgemeine Zeitung*.
- Die Weser.** Bremen, Schütting, Germany. Monthly.
Monatsschrift des Weserbundes e. V.
- Westchester light.** Mount Vernon, N. Y. Monthly.
Published by Westchester Lighting Company.
- Wiadomosci toż'u.** Warsaw, Poland. Monthly.
Published by Towarzystwo Ochrony Zdrowia Ludności Żydowskiej w Polsce.
Text in Hebrew.
- Wissenschaftliche Gesellschaft für Literatur und Theater.** Mitteilungen. Kiel, Germany. Twice a year.
- Wood workers journal.** Chicago, Ill. Monthly.
- Woodland whispers.** Ray Brook, New York. Quarterly.
Published by New York State Hospital for Incipient Pulmonary Tuberculosis, Ray Brook, N. Y.
- The World's paper trade review.** London. Weekly.
- Worth while.** Long Beach, Calif. Monthly.
- Zeitschrift für Nationalökonomie.** Wien, Austria. Irregular.

ASBESTOS

A LIST OF REFERENCES TO MATERIAL IN THE NEW YORK PUBLIC LIBRARY

COMPILED BY WILLIAM B. GAMBLE
Chief, Science and Technology Division

PART I

1. **A.**, F. Asbestwaren und Stopfbüchsenpackungen. (Gummi-Zeitung, Berlin, 1918, Jahrg. 32, p. 183.) †† VMA

Effect of the war on the German asbestos industry.

2. The **Acoustile** treatment of walls and ceilings. (Asbestos, Philadelphia, 1923, v. 5, no. 4, p. 22.) VHA

Briefly describes method of the Mazer Acoustile Company.

3. **Active** demand for asbestos. (Stone, New York, 1916, v. 37, p. 300.) VEA

4. **Adressbuch** der deutschen Gummi-, Gut-tapercha- und Asbest-Industrie... Ausgabe 11 (1913). Berlin, 1913. 8°. VMV

5. **African** Asbestos Mining Co., Ltd. illus. (South African mining and engineering year book, 1928, Johannesburg, 1928, p. 337-339.)

Interesting views.

† VHF

6. **African** notes. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 40, 42.) VHA

Discusses advantages of a bounty which might be paid to South African producers.

7. **Against** raw asbestos embargo. (Engineering and mining journal, New York, 1922, v. 113, p. 833.) VHA

Opinion of W. G. Ross, president of the Asbestos Corporation of Canada.

8. **Agricola**, Georgius, the elder. Georgii Agricolaë de ortu et causis subterraneorum, lib. v. De natura eorum quæ effluunt ex terra, lib. iiiii. De natura fossilium, lib. x... Basileae, 1558. 6 p., 1 l., 470 p., 20 l. f°. Reserve

See p. 253 for reference to lamp wicks, various names given to asbestos, occurrences, and characteristics.

9. **Aguilera**, José G. The geographical and geological distribution of the mineral deposits of Mexico. (American Institute of Mining Engineers, Transactions, New York, 1902, v. 32, p. 497-520.) VHA

Brief statement of occurrence, p. 499.

10. **Aitkin**, Thomas. Note on the modes of occurrence and localities of abriachanite. (Mineralogical magazine, London, 1880, v. 3, p. 69-71.) PWA

11. **Aldini**, Giovanni. Art de se preserver de l'action de la flamme, appliqué aux pompiers,

at à la conservation des personnes exposées aux feu; avec une série d'expériences faites en Italie, à Genève at à Paris. illus. (American journal of science and arts, New Haven, 1831, v. 20, p. 96-121.) OA

Lengthy synopsis of book of above title. Tells how to prepare amianthus for spinning and weaving, and how asbestos paper and cloth may be used in fire prevention and as clothing for firemen. Noteworthy illustrations.

12. ———. Vorrichtungen um die zum Feuerlöschen bestimmten Leute, eine gewisse Zeit hindurch gegen die Einwirkungen der Flamme zu schützen, und erweiterte Anwendung der Davys Sicherheits-Lampe. Mailand, 1828. 7 l., 1 pl. 8°. SX p.v.25, no.6

Reference to use of asbestos as fireproofing material. Illustration shows fireman clad in asbestos suit.

13. **All** about asbestos. A growing industry of Rhodesia and the Union — British South Africa contributing 13 per cent of the world's output — the Shabani, Transvaal and Cape deposits — increasing trade with America — new uses for asbestos — South African manufacturing depots — last year's production — valuable statistics — a new and bright factor in our mineral history. illus. (South African mining and engineering journal, Johannesburg, 1921, v. 30, part 1, p. 585-588.)

†† VHA

14. The **Allbestos** Corporation. (Asbestos Philadelphia, 1921, v. 2, no. 11, p. 45, 47.)

Account of plans and personnel.

VHA

15. **Allen**, A. G. Asbestos packings and jointings. illus. (India rubber journal, London, 1920, v. 59, p. 829-830, 877-878, 921-925.)

† VMV

16. **Allen**, E. T., and J. K. CLEMENT. The rôle of water in tremolite and certain other minerals. illus. (American journal of science, New Haven, 1908, series 4, v. 26, p. 101-118.) OA

17. **Allen**, E. T., and others. Minerals of the composition $MgSiO_3$; a case of tetramorphism. diagrs. (American journal of science, New Haven, 1906, series 4, v. 22, p. 385-438.) OA

Cited by Peacock in his paper on the origin of the amphibole-asbestos of South Africa.

Allen, Milton Arthur, and M. G. BUTLER. Asbestos. Tucson, 1921. 31 p., 1 pl. 8°. (Unity of Arizona bulletin no. 113. Mineralogy series no. 24.) **VHCA (Arizona)** Describes Arizona occurrences, with a list of prospects and prospective producers; also provisions of the law regulating prospects on Indian lands. Abstracted in *Canadian mining journal*, Gardenvale, 1921, p. 662, † **VHA**.

Allied preference on asbestos shipments. Engineering and mining journal, New York, 1909, v. 105, p. 702.) **VHA** Describes regulations for shipments of Canadian asbestos.

Altmann, Ernst. Asbestine und ihre Verwendung in der Papier- und chemischen Industrie. (Chemiker-Zeitung, Cöthen, 1925, v. 49, p. 34-35.) **VOA** Abstracted in *Asbestos*, Philadelphia, 1925, v. 6, p. 26, 28, **VHA**.

Amalgamated Asbestos Corporation. (Engineering and mining journal, New York, 1909, v. 87, p. 826, 1260.) **VHA** Gives capitalization, subsidiary companies, and personnel.

American Asbestos Company. (Engineering and mining journal, New York, 1890, v. 10, p. 726.) **VHA** Brief statement regarding property in Quebec.

American Society of Refrigerating Engineers. — Insulation Committee. Heat transmission of insulating materials; report of the Insulation Committee, annual meeting, 1922, revised to 1924... New York [1924?], iii, 114 illus. 4°. † **VBA p.v.136, no.1**

See p. 79-82 for results of tests on various asbestos ducts.

American Trade Press Syndicate. The unique method of applying asbestos corrugated sheathing. illus. (Asbestos, Philadelphia, 1924, v. 5, no. 8, p. 8, 11-12, 14.) **VHA**

"Amianthus," pseud. Advice to Canadian asbestos producers. (Engineering and mining journal, New York, 1923, v. 116, p. 330.) **VHA**

To prevent price cutting.

El Amianto i sus aplicaciones. (Sociedad de fomento fabril, Boletín, Santiago, 1918, v. 35, p. 250-251.) **VA**

Amosite. (American mineralogist, Lancaster, Penn., 1920, v. 5, p. 16; 1921, v. 6, p. 1.) **PWA** Brief references to characteristics and nomenclature.

Amosite — its growing popularity. (Asbestos, Philadelphia, 1928, v. 10, no. 5, p. 20-21.) **VHY**

The Analysis of asbestos and asbestos products. illus. (India rubber journal, London, 1902, v. 63, p. 829-830.) † **VMV**

Anderson, Johann. ... Nachrichten von Asbest, Grönland und der Strasse Davis...

Frankfurt und Leipzig, 1747. 15 p.l., 368 p., 4 l. illus. 12°. **Reserve**

Lengthy description of preparation and spinning in Siberia. Brief reference to this in *Gentleman's magazine*, London, 1747, v. 17, p. 174, * **DA**.

31. Andrew Johnson — pioneer in the asbestos mining field. illus. (Asbestos, Philadelphia, 1926, v. 8, July, p. 3-4, 6.) **VHA**

32. Der Angebliche "Brand" des Asbesthauses. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 638.) †† **VMA**

Discusses the reported "burning" of Graf Waldersee's asbestos house in China.

33. Anthophyllite, amphibole and serpentine. (Asbestos, Philadelphia, 1927, v. 9, no. 3, Sept., p. 13-14, 16-18.) **VHA**

Brief characterizations.

34. Arizona. (Engineering and mining journal, New York, 1922, v. 114, p. 123.) **VHA**

Describes property and operations of the Triangle Asbestos Association.

35. Arizona asbestos industry growing. (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 23.) **VHA**

36. Arizona notes. (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 37-38, 41.) **VHA**

37. Arizona's asbestos industry shows signs of life. Contract signed recently, provides for regular deliveries in the East. Low iron content attracts. (Engineering and mining journal, New York, 1923, v. 115, p. 1166.) **VHA**

38. Arnold W. Koehler. port. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 13-14.) **VHA**

Mr. Koehler organized the Asbestos Textile Company of Reynoldsville, Penn.

39. An Artist uses asbestos. (Asbestos, Philadelphia, 1924, v. 6, no. 3, p. 41.) **VHA**

Used in marionette theatre for costumes and scenery.

40. Asbest im Altertum. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 395-396.) †† **VMA**

41. Asbest in Arizona. (Gummi-Zeitung, Berlin, 1921, Jahrg. 35, p. 1263-1264.) †† **VMA**

Article by a special correspondent.

42. Asbest in Ceylon. (Gummi-Zeitung, Dresden, 1899, Jahrg. 14, p. 53.) †† **VMA**

Brief reference to deposits.

43. Asbest als Isoliermaterial. (Gummi-Zeitung, Dresden, 1906, Jahrg. 20, p. 630-632.) †† **VMV**

Varieties best adapted, other ingredients, and comparison with other compositions.

44. Asbest und Kieselguhr als Wärmeschutzmittel. (Gummi-Zeitung, Dresden, 1897, Jahrg. 12, p. 3.) †† **VMA**

Tests on asbestos-kieselguhr mixtures in comparison with other insulating materials.

45. **Asbest** aus Urua. (Gummi-Zeitung, Dresden, 1898, Jahrg. 13, p. 61.) †† VMA

Brief reference to mineral found in the Tanganyika district of Africa and its use among the natives.

46. **Asbest-Bauten**. (Gummi-Zeitung, Berlin, 1911, Jahrg. 26, p. 94-95.) †† VMA

Constructional details of asbestos building.

47. **Asbest-Einlegesohlen**. (Gummi-Zeitung, Dresden, 1898, Jahrg. 13, p. 61.) †† VMA

Use of asbestos as shoe soles.

48. **Asbest-Kautschukwaren**. (Gummi-Zeitung, Dresden, 1909, Jahrg. 23, p. 1592.) †† VMA

States advantages of rubber-asbestos composition.

49. **Asbest-Minen** in Spanien. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 635-636.) †† VMA

Brief reference to deposits and an analysis.

50. **Asbest-Papier**. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 635-636.) †† VMA

Statement of uses and essentials of good product.

51. **Asbestbekleidungsstücke**. (Gummi-Zeitung, Berlin, 1925, Jahrg. 39, p. 643.) †† VMA

States various uses of asbestos as clothing.

52. **L'Asbeste en Sibérie**. (L'Écho des mines, Paris, 1907, année 34, p. 679.) 3 - VHA

Abstract in *Engineering and mining journal*, New York, 1907, v. 84, p. 346, VHA.

53. **Asbestfaeden** in Taschen-Feuerzeugen. (Gummi-Zeitung, Berlin, 1913, Jahrg. 27, p. 2049.) †† VMA

States advantages of asbestos wicks in pocket-lighters.

54. **Asbestfunde** in Finnland. (Gummi-Zeitung, Dresden, 1904, Jahrg. 18, p. 764.) †† VMA

55. **Asbestfunde** im Ural. (Chemische Industrie, Berlin, Jahrg. 32, 1909, p. 530.) 3 - VOA

Abstract in *Journal of the Society of Chemical Industry*, London, v. 28, 1909, p. 1036, VOA.

56. **Asbestgewinnung** in Sibirien. (Gummi-Zeitung, Dresden, 1903, Jahrg. 17, p. 975.) †† VMA

Describes deposit near the Mongolian border.

57. **Asbestindustrie** im Gouvernement Orenburg. (Gummi-Zeitung, Dresden, 1909, Jahrg. 23, p. 1269.) †† VMA

Brief description of recent find in the province.

58. **Asbestkautschukwaren**. (Gummi-Zeitung, Berlin, 1914, Jahrg. 28, p. 1419-1420.) †† VMA

Criticizes methods of cheapening product.

59. **Asbestos**. v. 1-3 (Jan., 1918 - Oct., 1920). Rochdale, England: Turner Brothers Asbestos Co., Ltd., 1918-20. illus. 8°. VLA

Quarterly periodical which ceased publication with issue of Oct., 1920.

60. **Asbestos**, a monthly market journal devoted to the interests of asbestos and mag-

nesia industries. v. 1 - date (Oct., 1919 - date). Philadelphia: Published by C. J. Stover, 1919 - date. illus. 12°. VHA

An excellent publication giving up-to-date and interesting news concerning the asbestos industry.

61. **Asbestos**. (Canadian mining journal, Toronto, 1910, v. 31, p. 710.) VHA

Editorial urging boycott by Canadians on asbestos goods manufactured abroad.

62. **Asbestos**. (Iron, London, 1877, v. 10, p. 195.) 3 - † VVA

General article on modes of occurrence and uses. Also in *Engineering and mining journal*, New York, 1877, v. 24, p. 328-329, VHA.

63. **Asbestos**. South African occurrences. A succinct review. (South African mining and engineering journal, Johannesburg, 1922, v. 33, part 1, p. 1503.) VHA

64. **Asbestos** in Alaska. (Asbestos, Philadelphia, 1920, v. 2, no. 2, p. 33.) VHA

Brief statement of occurrence.

65. **Asbestos** in the Argentine. (Asbestos, Philadelphia, 1919, v. 1, Dec., p. 18.) VHA

Brief statement of asbestos articles imported.

66. **Asbestos** in Argus caulk. (Asbestos, Philadelphia, 1925, v. 6, no. 10, p. 35.) VHA

Plastic material for tilling cracks and crevices. Made of bitumen, gums, non-drying oils, and asbestos.

67. **Asbestos** and Asbestic Company, Ltd. (Engineering and mining journal, New York, 1897, v. 63, p. 219.) VHA

Company formed in London to make asbestos plaster.

68. **Asbestos** and Asbestic Company, Ltd. Abstracts of annual reports. (Engineering and mining journal, New York, 1900, v. 70, p. 402; 1901, v. 72, p. 97; 1902, v. 74, p. 414.) VHA

69. **Asbestos** and asbestos' patents. (Engineering and mining journal, New York, 1876, v. 22, p. 347.) VHA

Excellent review of early patents. See *American exchange and review*, Washington, 1876, for original article.

70. **Asbestos** in Australia. (Asbestos, Philadelphia, 1921, v. 2, April, p. 41-45.) VHA

Deals briefly with occurrences and operations in different states of the Commonwealth which supply a growing demand for the short-fibre variety.

71. **Asbestos** bags for aerial mail. (Asbestos, Philadelphia, 1919, v. 1, no. 5, p. 8.) VHA

Tested asbestos cloth used by the U. S. Post Office Department.

72. **Asbestos** boards. (Paper makers' monthly journal, London, 1912, v. 50, p. 240.) † VMPA

Brief description of manufacturing process.

73. **Asbestos** in Brazil. (Engineering and mining journal, New York, 1887, v. 43, p. 30.) VHA

Brief reference to discovery of deposits in the province of Goyaz.

4. **Asbestos in buildings.** (India rubber journal, London, 1903, v. 26, p. 442.) † VMV
Materials shown at the Paris Exhibition of Dwelling houses. VHA
5. **Asbestos can be fine spun.** (Engineering and mining journal, New York, 1920, v. 110, p. 62.) VHA
"Thread can now be spun so fine, that the fiber will run about 32,000 ft. to the pound."
6. **Asbestos in Carroll county, Georgia.** (Engineering and mining journal, New York, 1892, v. 54, p. 517-518.) VHA
7. **Asbestos at Casper, Wyoming.** (Engineering and mining journal, New York, 1909, v. 88, p. 622.) VHA
8. **Asbestos chimneys.** illus. (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 35.) VHA
Patents applied for by Fred Patee, Casper, Wyoming.
9. **Asbestos cloth as a filtering medium.** (Engineering and mining journal, New York, 1897, v. 64, p. 271.) VHA
Perforated sheet lead used instead of asbestos in chlorination barrels.
10. **Asbestos clothing.** illus. (Asbestos, Philadelphia, 1920, v. 2, no. 1, p. 32-34.) VHA
11. **Asbestos companies amalgamate.** Bell's Asbestos Co. take over the United Asbestos Co. (India rubber journal, London, 1910, v. 9, p. 85.) † VMV
12. **Asbestos Corporation of Canada.** Abstract of annual report. (Engineering and mining journal, New York, 1913, v. 95, p. 38.) † VHA
13. — [Abstracts of annual reports.] (Canadian mining journal, Toronto, 1915, v. 36, p. 162; 1921, v. 42, p. 180.) VHA
14. **Asbestos Corporation earned \$695,126 in 1927.** (Engineering and mining journal, New York, 1928, v. 125, p. 754.) † VHA
15. **Asbestos Corporation favors merger, but on its own terms.** (Engineering and mining journal-press, New York, 1925, v. 119, p. 776.) VHA
16. **Asbestos Corporation files suit against Leasby interests.** (Engineering and mining journal, New York, 1927, v. 123, p. 107.) † VHA
17. **Asbestos Corporation increases operating profits.** (Engineering and mining journal, New York, 1927, v. 123, p. 454-455.) † VHA
18. **Asbestos Corporation's employees called out.** Recognition of union and wage increase demanded. Business conditions changing. (Engineering and mining journal, New York, 1920, v. 110, p. 920.) † VHA
19. **Asbestos corrugated sheathing.** The permanent and non-combustible building material—its composition and manufacture. illus. (Asbestos, Philadelphia, 1924, v. 5, no. 7, p. 6-8.) VHA
20. **Asbestos curtain, Terry's Theatre.** (Engineer, London, 1887, v. 64, p. 430.) VA
21. **Asbestos in Cyprus.** Good progress recorded. (India rubber journal, London, 1927, v. 73, p. 1038.) † VMV
Financial report of the Cyprus Asbestos Company.
22. **Asbestos deposit being developed in Porcupine district.** (Engineering and mining journal-press, New York, 1925, v. 119, p. 700.) VHA
23. **Asbestos deposits in the Altai highlands—Russia.** (Asbestos, Philadelphia, 1925, v. 7, Sept., p. 12, 14, 16, 18.) VHA
24. **Asbestos deposits in Russia.** (Engineering and mining journal, New York, 1887, v. 43, p. 399.) VHA
Brief reference to the "Hill of Silk."
25. **Asbestos deposits in the Urals.** (Engineering and mining journal, New York, 1909, v. 87, p. 812.) VHA
"The asbestos resources of this district are said to be second only to those of Canada."
26. **Asbestos developments in South Africa.** illus. (South African mining and engineering journal, Johannesburg, 1928, v. 38, part 2, p. 665.) †† VHA
Views of Mr. Roland Starkey on blue asbestos prospects. He does not believe that there will be any further discoveries of importance on the known serpentine belts of Rhodesia.
27. **Asbestos discovery.** (Engineering and mining journal, New York, 1889, v. 48, p. 393.) VHA
South African "veins of asbestos, said to be the richest and the finest that anyone has ever seen."
28. **Asbestos discovery.** (Engineering and mining journal, New York, 1900, v. 70, p. 497.) VHA
Short fiber variety found in Habersham county, Georgia.
29. **Asbestos dryer felt.** (Asbestos, Philadelphia, 1924, v. 5, no. 12, p. 19.) VHA
Brief description of material used in paper drying.
30. **The Asbestos fields of Africa.** illus. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 16-18, 20-22, 24, 29.) VLA
Cross fibred white chrysotile worked commercially at Shebanie, Mashaba, and Barberton.
31. **The Asbestos fields of Russia.** (Mining world, Chicago, 1910, v. 33, p. 559.) VHA
32. **Asbestos in Finland.** (Engineering and mining journal, New York, 1903, v. 76, p. 849.) VHA
33. **Asbestos and fire-proofing.** (India rubber journal, London, 1913, v. 46, p. 566.) † VMV
Use of asbestos linings for car roofs.

104. **Asbestos in foreign countries.** (United States. — Bureau of Manufactures, Department of Commerce, Daily consular and trade reports, Washington, 1912, no. 92, April 18, 1912, p. 241–245.) **TLG**
Statistics for Germany, Switzerland, England, Russia, Italy, Rhodesia, Canada, and the United States.
105. **Asbestos found in Revelstoke district, B. C.** (Engineering and mining journal-press, New York, 1926, v. 121, p. 818.) **VHA**
106. **Asbestos found by Swiss Family Robinson.** (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 14.) **VHA**
Three quotations from the book.
107. **Asbestos furnace cement, a few points of interest.** (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 14.) **VHA**
108. **Asbestos in Greenland.** (India rubber journal, London, 1913, v. 46, p. 1030.) † **VMV**
Brief reference to property of a Danish company.
109. **Asbestos in hat making.** (Asbestos, Philadelphia, 1928, v. 10, no. 5, p. 14, 16.) **VHA**
For shaping of brims.
110. **Asbestos high pressure jointing.** illus. (India rubber journal, London, 1922, v. 64, p. 60–61.) **VHA**
Describes manufacture. Reprinted in *Asbestos*, Philadelphia, 1922, v. 4, no. 6, p. 10, 12–14, 16, *VHA*.
111. **Asbestos hot bag.** (India rubber journal, London, 1907, v. 33, p. 295–296.) † **VMV**
Bed warmer introduced in Scotland.
112. **An Asbestos house for Field-Marshal Count von Waldersee.** (India rubber journal, London, 1900, v. 20, p. 187; 1901, v. 21, p. 345, 532.) † **VMV**
Brief references to house to be used in China.
113. **Asbestos on Indian reservations now open to location.** Claims containing this mineral said to have been filed on already by subterfuge. (Engineering and mining journal, New York, 1921, v. 111, p. 682–683.) **VHA**
Quotes from the act.
114. **The Asbestos industry.** (Canadian mining journal, Gardenvale, 1920, v. 41, p. 691.) **VHA**
Editorial discussion of Canada's export policy.
115. **The Asbestos industry.** (Chemical trade journal, London, 1926, v. 78, p. 625–627.) † **VOA**
Good general article covering economic fluctuations, varieties of asbestiform minerals, geographical distribution, and a table of physical properties of chrysotile, crocidolite, and amosite.
116. **The Asbestos industry.** (Engineering and mining journal, New York, 1919, v. 107, p. 51.) **VHA**
Review of year's developments in United States, Canada, and South Africa.
117. **The Asbestos industry in Great Britain.** (Asbestos, Philadelphia, 1919, v. 1, no. 6, p. 19–20.) **VHA**
118. **The Asbestos industry in Japan.** (Canadian Mining Institute, Bulletin, Montreal, June, 1918, no. 74, p. 509–510.) **VHA**
Also in *Journal of the Society of Chemical Industry*, London, 1918, v. 37, p. 300r, *VOA*.
119. **The Asbestos industry in Quebec.** (Engineering and mining journal, New York, 1901, v. 71, p. 236.) **VHA**
Statement of current activities.
120. **The Asbestos industry in Russia.** (Economic review of the Soviet Union, New York, 1928, v. 3, p. 222.) † **TAA**
Account of new discoveries. Abstracted in *Asbestos*, Philadelphia, 1928, v. 10, no. 1, p. 22, 24, *VHA*.
121. **The Asbestos industry in Russia.** (India rubber journal, London, 1924, v. 68, p. 964.) † **VMV**
Brief references to deposits. Some interesting figures regarding the Uralasbest Trust.
122. **The Asbestos industry of southern Rhodesia.** illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 551–555, 587–591.) † **VHA**
Describes the ore bodies on Shabani property; mining and milling at the Nil desperandum mine.
123. **The Asbestos industry.** U. S. and Canadian rivalry. (India rubber journal, London, 1922, v. 63, p. 651.) † **VMV**
Effects of the Fordney tariff.
124. **Asbestos interests in Quebec consolidate; control new process.** Black Lake and East Broughton properties involved. Rights to wet process are asset of new company. (Engineering and mining journal-press, New York, 1924, v. 118, p. 346.) **VHA**
125. **Asbestos and its applications.** (Engineering and mining journal, New York, 1883, v. 36, p. 228–229.) **VHA**
Uses of asbestos for engine packing, theatre curtains, fire-shields, pipe joints, cord, and millboard.
126. **Asbestos and its embargo.** (India rubber world, New York, 1916, v. 54, p. 462.) † **VMV**
Editorial comment on Canadian situation.
127. **Asbestos, its manufacture and uses.** (Engineering and mining journal, New York, 1885, v. 39, p. 245–246.) **VHA**
Describes occurrence and characteristics of Italian asbestos and details methods for its preparation and spinning.
128. **Asbestos and its manufactures.** (Commerce monthly, New York, April, 1924, v. 5, p. 27–30.) **TLA**
General article. Abstracted in *Canadian mining journal*, 1924, v. 45, p. 374–375, *VHA*.
129. **Asbestos: its origin and production.** (Chemical world, London, 1913, v. 2, p. 28–29.) **VOA**

10. **Asbestos in Japan.** (Engineering and mining journal, New York, 1909, v. 88, p. 59.) VHA
11. **Asbestos in Madagascar.** (Asbestos, Philadelphia, 1924, v. 6, no. 2, p. 9.) VHA
Brief statement concerning amphibole found there.
12. **Asbestos mail containers.** illus. (Asbestos, Philadelphia, 1920, v. 2, no. 4, p. 27-3.) VHA
Used by the U. S. Post Office Department.
13. **Asbestos in the Malipsdrift area.** An account of the occurrences. Fibre variations. Remarkably high percentages. Progress at South African Consolidated property. illus. South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 639-41.) †† VHA
Abstracted in *Asbestos*, Philadelphia, 1928, v. 10, no. 1, p. 21-22, VHA.
14. **Asbestos in many lands.** (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 35.) VHA
A list of places where asbestos is found.
15. **Asbestos — a marvel of the ages.** illus. Contractors' and engineers' monthly, New York, 1921, v. 3, no. 5, p. 44-46.) VDA
General article.
16. **The Asbestos merger.** (Canadian mining journal, Toronto, 1909, v. 30, p. 385-386.) VHA
Criticizes the data of Mr. Fritz Cirkel.
17. **The Asbestos merger.** (Canadian mining journal, Gardenvale, 1925, v. 46, p. 584.) VHA
18. **The Asbestos merger.** (Canadian mining journal, Gardenvale, 1925, v. 46, p. 749-50.) VHA
Reasons for suspended negotiations.
19. **The Asbestos merger.** (Engineering and mining journal-press, New York, 1925, v. 119, p. 514.) VHA
Editorial comment.
20. **Asbestos mills in Quebec.** illus. (Engineering and mining journal, New York, 1919, v. 107, p. 570-571, 830-831, 1042-1043; 1919, v. 108, p. 826-827.) VHA
Photographic views from the Quebec field.
21. **Asbestos and Mineral Corporation.** Asbestos, from mine to finished product. New York: Asbestos and Mineral Corporation, 1919. 2 p.l., (1) 8-194 p. illus. 4°. VHT
A series of plates with descriptive letter-press.
22. — **Asbestos production in Canada.** (Asbestos, Philadelphia, 1921, v. 2, no. 8, p. 49.) VHA
Statistics, 1909-1919 inclusive.
23. — **Variance in asbestos chemically.** (Asbestos, Philadelphia, 1920, v. 1, no. 8, p. 8.) VHA
Analyses of several Canadian samples.
24. **Asbestos miners deport manager at Thetford mines.** Striking employees resent presence of armed guards. (Engineering and mining journal-press, New York, 1923, v. 115, p. 812.) VHA
25. **Asbestos mines in California.** (Engineering and mining journal, New York, 1877, v. 24, p. 404.) VHA
Reports a large vein in Calaveras county.
26. **Asbestos mines in China.** (India rubber journal, London, 1911, v. 42, p. 735.) † VMV
Good quality found at Kuantien.
27. **Asbestos Mines, Ltd.,** declared insolvent by court. (Engineering and mining journal-press, New York, 1926, v. 121, p. 66.) VHA
28. **Asbestos mines at Thetford.** (Engineering and mining journal, New York, 1889, v. 48, p. 80.) VHA
Brief statement regarding operations.
29. **Asbestos mining in Asiatic Russia.** illus. (Canadian mining review, Ottawa, 1903, v. 22, p. 110-111.) VHA
Panoramic views of the Corewo and Baron Girar de Soukanon mines.
30. **Asbestos mining in China.** (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 34.) VHA
Brief statement of occurrences.
31. **Asbestos mining in Quebec.** illus. (Canadian mining review, Montreal, 1905, v. 24, p. 126-128; v. 25, p. 116-118.) VHA
Views of mills and quarries of the Asbestos and Asbestic Company, and of the Standard Asbestos Company.
32. **Asbestos mining in Quebec.** chart. (Canadian mining journal, Toronto, 1912, v. 33, p. 453-457.) VHA
Discusses conditions at the principal mines, with trade views of some of the managers.
33. **Asbestos mining in Vermont.** (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 41, 43-44.) VHA
History of the industry in that state.
34. **Asbestos mittens in the rubber mill.** illus. (India rubber world, New York, 1922, v. 66, p. 607-608.) † VMV
35. **Asbestos — the most important mineral.** (Asbestos, Philadelphia, 1929, v. 10, no. 9, p. 27-29.) VHA
Discusses important uses.
36. **Asbestos moulds in metal foundries.** (India rubber journal, London, 1920, v. 59, p. 313.) † VMV
37. **Asbestos museum.** (Asbestos, Philadelphia, 1920, v. 2, no. 4, p. 46.) VHA
Effort to establish museum in New York City.

158. [Asbestos in New South Wales.] (Engineering and mining journal, New York, 1891, v. 52, p. 56.) **VHA**
Brief reference to occurrence at Redhill, near Brok-enhill.
159. Asbestos in New Zealand. (Engineering and mining journal, New York, 1898, v. 65, p. 403.) **VHA**
Property on the Upper Takaka river worked by the New Zealand Asbestos Company.
160. Asbestos in New Zealand. (India rubber journal, London, 1920, v. 59, p. 150.) **† VMV**
Abstract of report of committee of the House of Representatives on the best means of encouraging the industry.
161. Asbestos once again. (Canadian mining journal, Toronto, 1909, v. 30, p. 418.) **VHA**
Editorial comment on Black Lake Consolidated Asbestos Company merger.
162. Asbestos from Ontario. illus. (Engineering and mining journal, New York, 1917, v. 103, p. 488.) **VHA**
163. Asbestos in Ontario. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 402.) **VHA**
Brief statement of occurrences.
164. Asbestos or "other fireproof material." (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 6, 8.) **VHA**
Suggests that manufacturers cooperate to secure definiteness in specifications covering fireproof curtains for theatres.
165. Asbestos packing now made in the United States. (Engineering and mining journal, New York, 1916, v. 101, p. 1034.) **VHA**
Brief reference to "Goodyearite."
166. Asbestos packings. illus. (India rubber journal, London, 1922, p. 17-18.) **† VMV**
Describes manufacture.
167. Asbestos packings. (India rubber world, New York, 1914, v. 51, p. 68.) **† VMV**
German suggestion for guaranteed quality.
168. Asbestos paper standards. (Asbestos, Philadelphia, 1924, v. 5, no. 8, p. 29.) **VHA**
Sizes of paper and millboard recommended by the Asbestos Paper Manufacturers Association.
169. Asbestos plant for Globe, Ariz., is talked of. (Engineering and mining journal-press, New York, 1924, v. 117, p. 416.) **VHA**
170. Asbestos plastic and liquid roofing cement. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 11-13.) **VHA**
171. Asbestos plate or "slate" tests. (India rubber journal, London, 1902, v. 24, p. 262.) **† VMV**
Account of fire tests made at the Royal Testing Station, Charlottenburg, Germany.
172. Asbestos powder. (Engineering and mining journal, New York, 1876, v. 21, p. 347.) **VHA**
Pipe joint paste made from powdered asbestos and liquid silicate of soda.
173. Asbestos producers' amalgamation. (Chemical age, London, 1928, v. 19, p. 366.) **VOA**
Brief note concerning amalgamation of Turner and Newall, of Rochdale, and Bell's United Asbestos Co., Ltd.
174. Asbestos production and consumption. Resources of Canada. (India rubber journal, London, 1922, v. 64, p. 760-761.) **† VMV**
Abstract of bulletin of the Natural Resources Intelligence Branch of the Canadian Government. Treats of world's production, varieties, and uses, and has a list of Canadian companies.
175. Asbestos production of South Africa and the grades marketed. (Engineering and mining journal-press, New York, 1925, v. 119, p. 733.) **VHA**
176. Asbestos production in the Ural district. (Engineering and mining journal, New York, 1916, v. 102, p. 587.) **VHA**
Brief reference to production for 1915.
177. Asbestos as a protective edging for machine belting. (India rubber journal, London, 1926, v. 71, p. 144.) **† VMV**
178. Asbestos research. (India rubber journal, London, 1923, v. 65, p. 260.) **† VMV**
Fellowship established at Mellon Institute, Pittsburgh, Penn.
179. Asbestos resources of Canada. (Canadian textile journal, Gardenvale, Quebec, Feb. 20, 1923, v. 40, p. 170.) **VHA**
180. Asbestos roofing for inclines. (American roofer, Chicago, 1928, v. 18, no. 5, p. 26.) **VEA**
H. F. Watson Company's Woerheide roofing for 3-inch inclines or greater.
181. Asbestos royalty reduced. (Engineering and mining journal-press, New York, 1922, v. 114, p. 779, 910.) **VHA**
182. Asbestos in the seventeenth century. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 35-36.) **VHA**
183. Asbestos shingle tariff decision. (Asbestos, Philadelphia, 1928, v. 9, no. 11, p. 43-44.) **VHA**
184. [Asbestos in Siskiyou county, California.] (Engineering and mining journal, New York, 1891, v. 52, p. 274.) **VHA**
Report of fiber 18 inches in length.
185. The Asbestos situation in Europe. (Asbestos, Philadelphia, 1920, v. 2, no. 2, p. 27, 30.) **VHA**
Excerpts of letter from Mr. B. Marcuse, president of the Asbestos and Mineral Corporation.
186. [Asbestos in Skagit county, Washington.] (Engineering and mining journal, New York, 1891, v. 51, p. 362.) **VHA**

187. **Asbestos** in Skagit county, Washington. (Engineering and mining journal, New York, 1896, v. 62, p. 135; 1898, v. 65, p. 383.)
VHA
188. **Asbestos slates**. (Engineering and mining journal, New York, 1908, v. 85, p. 467.)
VHA
Characteristics of artificial slate made by Munich firm.
189. **Asbestos** in South Africa. (Salt Lake mining review, Salt Lake City, 1920, v. 22, Nov. 15, p. 36.)
VHA
190. **Asbestos** in South Dakota. (Engineering and mining journal, New York, 1891, v. 52, p. 55.)
VHA
Occurrence at Central Hills.
191. **Asbestos** in Spain. (Asbestos, Philadelphia, 1922, v. 3, no. 8, p. 22.)
VHA
192. **Asbestos** in the state of Washington. (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 9.)
VHA
193. **Asbestos** substitutes and similarities. illus. (India rubber journal, London, 1922, v. 63, p. 895-896.)
† VMV
Slag wool, spun glass, soapstone, talc, fossil meal, and wood pulp.
194. The **Asbestos** tangle. (Canadian mining journal, Gardenvale, 1924, v. 45, p. 322.)
VHA
Proposes control by Canadian government.
195. **Asbestos Textile Company**. Aztec brake lining made of asbestos... Sizes for all cars, trucks and busses. New York City: Asbestos Textile Co., cop. 1928. xii, 64 p. tables. 4°.
VBA p.v.153
196. **Asbestos** in time of war. (Engineering and mining journal, New York, 1926, v. 122, p. 1-2.)
† VHA
Brief editorial discussion concerning tariff.
197. **Asbestos** for tire fabric. (India rubber world, New York, 1917, v. 5, p. 218.)
† VMV
Mentioned as possible substitute for cotton.
198. **Asbestos** trade's output. (India rubber journal, London, 1927, v. 73, p. 815.)
† VMV
Abstract of British census of production of 1924.
199. **Asbestos** in the Union of South Africa. diagr. (South African mining and engineering journal, Johannesburg, 1926, v. 37, p. 485-486.)
† VHA
200. **Asbestos** in the Urals. (Engineering and mining journal, New York, 1912, v. 93, p. 886.)
VHA
Statistics for 1911.
201. **Asbestos** in the war. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 17-20.)
VHA
202. **Asbestos** waste as a soil corrector. (Asbestos, Philadelphia, 1927, v. 8, no. 8, Feb., p. 14, 16.)
VHA
Experiments with alfalfa.
203. **Asbestos** — what it is. (Paper, New York, 1911, v. 5, no. 8, p. 13.)
† VMPA
General article.
204. The **Asbestos-bearing** belt of eastern United States. (Mining and scientific press, San Francisco, 1920, v. 120, p. 160.)
VA
205. **Asbestos-protected** steel. (Engineering and mining journal, New York, 1913, v. 96, p. 891; 1915, v. 99, p. 950; 1915, v. 100, p. 807.)
VHA
Titles of articles vary.
206. **Asbestpulver**. (Gummi-Zeitung, Berlin, 1921, Jahrg. 35, p. 768.)
†† VMA
Brief statement of uses.
207. **Auchy, George**. Retention of moisture by asbestos. (American Chemical Society, Journal, Easton, Penn., v. 22, 1900, p. 46-47.)
PKA
Abstract in *Journal of the Society of Chemical Industry*, London, v. 19, 1900, p. 275, *VOA*; *Journal of the Chemical Society*, London, 1900, v. 78, part 2, p. 309, *PKA*.
208. The **Australian** deposits of asbestos. (Asbestos, Philadelphia, 1925, v. 6, no. 7, p. 26-28.)
VHA
209. **Automobiles** and asbestos. (Asbestos, Philadelphia, 1923, v. 4, no. 12, p. 29, 31.)
VHA
Statistics of use in brake-linings, gaskets, cylinder heads, chassis, and clutch-rings.
210. **Automobiles** and the asbestos industry. (Automotive industries, Philadelphia, 1922, v. 46, p. 520-522.)
† TOL
"One-half of the asbestos manufactures of the United States is consumed by the automotive industries and car owners." Also in *Raw material*, 1922, v. 5, p. 184-186, † *VIA*.
211. **B., E. G.** Asbestos industry flourishing at Prieska. Record output recorded. Opportunities for the "small man." Some selling points. (South African mining and engineering journal, Johannesburg, 1927, v. 38, part 1, p. 575.)
†† VHA
212. — Blue asbestos industry. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 652-653.)
†† VHA
"As a result of the increased prices a number of new or closed-down properties are being opened."
213. — The blue asbestos market. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 96-97.)
†† VHA
"Increase of production can only take place very slowly, owing to the very thin and extended nature of the deposits."
214. — Blue asbestos notes. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 506.)
†† VHA
Operations in the Prieska region.

215. — Co-operation among blue asbestos producers. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 700-701.) †† VHA
216. A Backward glance. (Asbestos, Philadelphia, 1929, v. 10, no. 7, p. 2-4.) VHA
Review of notable events in the industry during 1928.
- 216a. Bailey, Dorothy, and K. C. BAILEY. An etymological dictionary of chemistry and mineralogy. London: Edward Arnold and Co., 1929. viii, 307 p. 8°. PKF
217. Baker, E. Carleton. Asbestos deposits in West China. (United States. — Bureau of Foreign and Domestic Commerce, Commerce reports, Washington, no. 171, July 22, 1915, p. 393.) TLG (U. S.)
Brief notice. Also in *Journal of the Society of Chemical Industry*, London, 1915, v. 34, p. 870, VOA.
218. Banerjee, S. B. Asbestos in India. (Asbestos, Philadelphia, 1922, v. 4, no. 3, p. 42, 45.) VHA
219. — The asbestos trade of India. (Asbestos, Philadelphia, 1923, v. 5, no. 2, p. 33-34, 36.) VHA
220. — The asbestos trade of India. (Engineering and mining journal-press, New York, 1923, v. 115, p. 616.) VHA
221. — Production statistics in India. (Asbestos, Philadelphia, 1923, v. 4, no. 11, p. 34, 36.) VHA
222. Barba, W. P. The use of asbestos in filtration. (Journal of analytical and applied chemistry, Easton, Pa., 1892, v. 6, p. 35.) PKA
Use in chemical analysis. Also in *Engineering and mining journal*, New York, 1892, v. 53, p. 305, VHA; *Chemical news*, London, 1892, v. 65, p. 101, PKA.
223. Barberton asbestos. The new Amianthus an outstanding mine. A high, long fibre percentage. Munnik Myburgh a steady producer. Big development in prospect. American interests busy. illus. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 2, p. 462-468.) †† VHA
224. Barlow, A. E. Notes on the origin of asbestos. (Canadian Mining Institute, Journal, Montreal, 1910, v. 13, p. 438-443.) VHA
With discussion.
225. Barrow, F. H. The asbestos industry in central Wyoming. illus. (Engineering and mining journal, New York, 1910, v. 90, p. 559.) VHA
226. Barrow, G., and H. H. THOMAS. On the occurrence of metamorphic minerals in calcareous rocks in the Bodmin and Camelford areas, Cornwall. (Mineralogical magazine, London, 1908, v. 15, p. 113-123.) PWA
For occurrence of amphibole see p. 120-121.
227. Barton, R. A. Natal asbestos. (South African mining and engineering journal, Johannesburg, 1922, v. 33, p. 1293-1294.) VHA
228. Bateman, Alan M. An Arizona asbestos deposit. illus. (Economic geology, New Haven, 1923, v. 18, p. 663-680.) PTA
With discussion, p. 681-683.
Property in the Sierra Ancha mountains operated by the American Ores and Asbestos Company.
229. Bauer, Max. Über natronhaltige Asbeste. (Neues Jahrbuch für Mineralogie, Stuttgart, 1882, Jahrg. 1882, Bd. 1, p. 158-161.) PWA
Abstract in *Journal of the Chemical Society*, London, 1882, v. 42, Abstracts, p. 475-476, PKA.
- 229a. Bayer, Fritz. Studien über Asbest. illus. (Kunststoffe, München, 1916, Jahrg. 8, p. 89-92, 119-121, 129-131, 146-149.) †† VA
Important investigation on the relative properties of chrysotile and blue asbestos, as to water content of fabrics and boards, effect of heat, and effect of cotton mixture on strength of products.
230. Bayley, William Shirley, and others. Description of the Raritan quadrangle, by W. S. Bayley, H. B. Kümmel, and R. D. Salisbury. Washington, 1914. 32 p. maps. f°. (United States. — Geological Survey. Geologic atlas of the United States. no. 191, Raritan folio.) ††† PTB
See p. 30 for brief reference to asbestos in this area.
231. Beach, B. S. Asbestos in electrical products. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 29-30.) VHA
232. Beck, Lewis Caleb. Mineralogy of New York, comprising detailed descriptions of the minerals found in the state of New York, and notices of their uses in the arts and agriculture. Albany, 1842. xxiv, 536 p. illus. 4°. (Natural history of New York. part 3.) PTB (New York)
See p. 58, 287, 298-299, 301, 313.
233. Becker & Haag, Berlin. Asbest, seine Fundstellen, Gewinnung, Aufbereitung, Verarbeitung und Anwendung in Industrie und Technik. Berlin: Becker & Haag, 1927. 98 p. map, chart. illus. 8°. VHT
Has numerous photographs of workings in Canada, Rhodesia, Russia, Cyprus, and the Transvaal. Reviewed in *South African mining and engineering journal*, Johannesburg, 1929, v. 39, part 2.
234. Die Bedeutung der Asbestfabrikate für die Herstellung feuersicherer Bauten und für das Feuerlöschwesen. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 211-212, 224-225.) †† VMA
Report of test on fire-proof structure in Hamburg, with comments, especially on use in theatres.
235. Beeler, Henry C. Asbestos in Wyoming. illus. (Engineering and mining journal, New York, 1910, v. 90, p. 955.) VHA
236. — Wyoming. (Engineering and mining journal, New York, 1909, v. 87, p. 111-112.) VHA
Occurrence at Casper mountain. Author is State Geologist of Wyoming.

37. Bell, Robert. The mineral resources of the Hudson's Bay territories. (American Institute of Mining Engineers, Transactions, New York, 1886, v. 14, p. 690-698.) **VHA**

Brief statement of occurrences, p. 696-697.

38. Bellen, E. van der. Der Asbest. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 771-772, 789, 805-807, 821-823, 840-841, 854-855, 71.) **†† VMA**

Excellent article on chemistry of asbestos with numerous analyses.

39. — Beiträge zur Kenntniss des Asbestos. illus. (Chemiker-Zeitung, Cöthen, 1900, Jahrg. 24, Heft 1, p. 392-393.) **VOA**

Abstracted in *Journal of the Chemical Society*, London, 1900, v. 78, part 2, p. 602-603, *PKA*; *Journal of the Society of Chemical Industry*, London, 1900, v. 19, p. 537, *VOA*.

Also in *Gummi-Zeitung*, Dresden, 1900, Jahrg. 15, p. 37-39, **†† VMA**.

Methods of analysis and determination of melting points; also results of analyses of samples from Scotland, Silesia, Mexico, Canada, Italy, Zwolebitz in Germany, and Sala in Norway.

40. — Prüfung, Herstellung und Verwendung von Asbestpappen. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 614-615.) **†† VMA**

41. — Ueber die Bildung von Asbest auf mechanischem Wege. (Chemiker-Zeitung, Cöthen, 1900, Jahrg. 24, Semester 1, p. 284-285.) **†† VOA**

Also in *Gummi-Zeitung*, Dresden, 1900, Jahrg. 14, p. 518-519, **†† VMA**.

42. Benjamin Franklin's asbestos purse. Asbestos, Philadelphia, 1923, v. 4, no. 8, p. 1.) **VHA**

43. Bergman, Torbern Orlof. Essays, physical and chemical, translated from the original Latin. To which are added notes and illustrations by the translator. Edinburgh, 1791. xvi, 446 p. 12°. **PKH**

See p. 181-204 for chapter on asbestine earth. Tests and analyses of several European specimens.

44. — Manuel du minéralogiste; ou, Description du règne minéral, distribuée d'après l'analyse chimique... Traduite et augmentée de notes par M. Mongez, le jeune. Nouvelle édition, considérablement augmentée par J. C. Delaméthérie. Paris: Cuchet, 1792. 2 v. 8°. **PWD**

Distinguishes between amianthus and asbestos.

45. Bergmann, Josef. Die Asbestspinnerei. illus. (In his: Handbuch der Spinnerei, Berlin, 1927, p. 952-954.) **VLD**

Has drawing of spinning machine.

46. Berlinraut, Leo. Die Asbestgewinnung in der USSR. (Aus der Volkswirtschaft der Union der Sozialistischen Sowjet-Republiken, Berlin, 1925, Jahrg. 4, Nr. 2, p. 77-93.) **TAA**

History, statistics, and occurrences in Russia.

47. — Russian asbestos mining reviving. This industry, hit hard by the war, now shows gradual improvement. Exports on the

increase. Hamburg the distributing point. illus. (Engineering and mining journal-press, New York, 1926, v. 121, p. 164-167.) **VHA**

Good description of various deposits, with table showing Ural production 1904-1921.

248. Bernoulli, Christoph. Geognostische Übersicht der Schweiz, nebst einem systematischen Verzeichnisse aller in diesem Lande vorkommenden Mineralkörper und deren Fundörter. Basel: Schweighauser, 1911. xii, 228 p., 1 pl. 12°. **VHE (Zipser)**

See p. 179-183 for brief references to asbestos, byssolite, and tremolite.

249. Berthold Marcuse, another asbestos pioneer. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 18.) **VHA**

Obituary notice.

250. Berwerth, Fritz. Ueber die chemische Zusammensetzung der Amphibole. (Kaiserliche Akademie der Wissenschaften, Sitzungsberichte, Mathematisch-naturwissenschaftliche Klasse, Wien, 1882, Bd. 85, Abt. 1, p. 153-187.) *** EF**

251. Bezon, Jean. Dictionnaire général des tissus anciens et modernes... Lyon: Th. Lépagnez, 1856-63. 8 v. 8°. **VL**

Deals with a Chinese furnace as reported by B. G. Sage; also the experiments of Madame Perpent.

252. A Big asbestos deal. (South African mining and engineering journal, Johannesburg, 1927, v. 38, part 1, p. 159.) **†† VHA**

Group of 24 mines acquired by the Dominions Blue Asbestos Mines, Ltd., of South Africa.

253. Bigler, O. A. The asbestos built up roof. illus. (Asbestos, Philadelphia, 1921, v. 2, no. 10, p. 5, 6, 8.) **VHA**

254. Binder, O. Silberasbest, Bleichromat- und Bleihyperoxydasbest. (Chemiker-Zeitung, Cöthen, 1918, Jahrg. 42, p. 522.) **† VOA**

The use of silver-asbestos is recommended in place of silver foil for the removal of chlorine in combustion analyses. Abstract in *Journal of the Society of Chemical Industry*, London, 1918, v. 37, p. 784a, *VOA*; *Journal of the Chemical Society*, London, 1918, v. 114, part 2, p. 453.

255. Bindheim. Chemische Untersuchungen einiger Steinarten. (Gesellschaft naturforschende Freunde, Schriften, Berlin, 1782, Bd. 3, p. 423-433.) **3 - * EE**

For methods of asbestos analysis see p. 423-426.

256. Bischof, Gustav. Lehrbuch der chemischen und physikalischen Geologie. Bonn, 1863-66. 3 v. 2. ed. 8°. **PTK**

See Bd. 2, p. 627-631 for discussion of augite-asbestos transformation with 12 analyses and a bibliography.

257. Black Lake Asbestos and Chrome Company. [Abstract of semi-annual report.] (Canadian mining journal, Gardenvale, 1921, v. 42, p. 732.) **VHA**

258. [Black Lake asbestos mines.] (Engineering and mining journal, New York, 1890, v. 50, p. 634, 660.) **VHA**

Brief account of mining and grading.

259. **Black Lake Consolidated Asbestos Company.** (Engineering and mining journal, New York, 1909, v. 88, p. 188, 467.) **VHA**

Personnel, capitalization, and subsidiary companies.

260. **Blair, Patrick.** An account of the asbestos, or lapis amiantus, found in the highlands of Scotland. (Philosophical transactions, London, 1712, v. 27, p. 434-436.) * **EC**

261. **Blatchford, Torrington.** Asbestos deposits at Soanesville. illus. (In: Western Australia. — Geological Survey. Bulletin no. 52. Perth, 1913. 8°. p. 30-54.) **PTB**

262. **Blue asbestos.** (Chemical trade journal and chemical engineer, London, 1917, v. 60, p. 137.) **VOA**

263. **Blue asbestos.** (Engineer, London, 1917, v. 123, p. 524-525.) **VA**

264. **Blue asbestos.** (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 723.) †† **VHA**

Editorial plea for cooperation among producers.

265. **The Blue asbestos boom.** (India rubber journal, London, 1926, v. 72, p. 449.) † **VMV**

Refers to a movement to improve the industry in South Africa. States that large areas have been "pegged" in Bechuanaland and the Transvaal.

266. **Blue asbestos in the chemical industry.** (Asbestos, Philadelphia, 1924, v. 5, no. 11, p. 19, 21-22.) **VHA**

267. **Blue asbestos for steam boilers and pipes.** Its outstanding value as an insulating material. (South African journal of industries, Pretoria, 1925, v. 8, p. 641-642.) **TLA**

Abstracted in *Engineering and mining journal-press*, New York, 1925, v. 120, p. 926, **VHA**.

268. **Blum, Johann Reinhard.** Die Pseudomorphosen des Mineralreichs. Stuttgart, 1843. x, 378 p. 12°. **PUF**

See p. 163-166, Augite-asbestos transformation.

269. **Blum, Th.** Der Asbestbergbau im Gas-teiner Tale. (Gummi-Zeitung, Berlin, 1922, Jahrg. 36, p. 69-70.) †† **VMA**

Describes occurrence in detail.

270. **Blumenthal, F. H.** Asbestos situation in the first half of 1928. (United States. — Bureau of Foreign and Domestic Commerce, Commerce reports, Washington, Sept. 24, 1928, p. 788-789.) **TLG (U. S.)**

U. S. imports and exports. Expansion of Rhodesian industry expected to follow the new railway. Russian conditions.

271. **Boalich, E. S.** Latent possibilities among California mineral resources. (Mining and scientific press, San Francisco, 1915, v. 110, p. 218-219.) **VA**

Brief statement of occurrences.

272. **Bobaricoff, J., and W. MRAMORNOFF.** The tensile strength of asbestos rope when exposed to fire. diagrs. (Engineering, London, 1916, v. 102, p. 451-452.) † **VDA**

Experiments at the Tomsk Institute of Technology. Also in *India rubber journal*, London, 1916, v. 52, p. 785-787, † **VMV**.

273. **Bodmer-Beder, A.** Der Malencoserpen tin und seine Asbeste auf Alp Quadrato bei Poschiavo, Graubünden. (Centralblatt für Mineralogie, Stuttgart, 1902, Jahrg. 1902, p. 488-492.) **PWA**

274. **Boetius de Boot, Anselmus.** Gemmarum et lapidum historia... Postea Adrianus Tollius recensuit. Lugduni Batavorum: Joannis Maire, 1647. 4 p.l., 576 p., 10 l., 1 pl., 32 l., 210 p., 3 l. illus. 3. ed. 8°. **PWV**

See p. 382 for uses, sources, and perpetual lamps. Good illustration.

275. **Bombay suburban electrification.** Motor cars are effectively fire-proofed and are designed to run through water two feet deep. illus. (Railway age, New York, 1925, v. 78, p. 836-838.) **TPE**

Use of asbestos for rolling stock, which portion of the article is quoted in *Asbestos*, Philadelphia, 1925, v. 6, no. 10, p. 12, **VHA**.

276. **Booker, Ernest.** The Quebec asbestos industry. illus. (Canadian mining journal, Gardenvale, 1923, v. 44, p. 510-511, 546-548, 693-694.) **VHA**

Extensive article treating of efficiency in milling. For comment by Samuel Davis see *Canadian mining journal*, 1923, v. 44, p. 702-703.

277. **A Boom in asbestos.** (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 565.) †† **VHA**

Demand for raw materials and shares.

278. **Borchert, G.** Die Asbest-Industrie des Urals. (Gummi-Zeitung, Berlin, 1920, Jahrg. 35, p. 100-101.) †† **VMA**

Effects of the war. Abstract in *Journal of the Society of Chemical Industry*, London, 1921, v. 40, p. 141, **VOA**.

279. **Born, Ignaz, Edler von.** Catalogue méthodique et raisonné de la collection des fossiles de Mlle. Éléonore de Raab. Vienne, 1790. 2 v. illus. 12°. **PX**

Descriptions of specimens from various sources.

280. **Borntraeger, Hugo.** Ueber ein Surrogat für Asbest. (Gummi-Zeitung, Dresden, 1900, Jahrg. 15, p. 5-6.) †† **VMA**

Asbestos substitute using magnesium salt and water-glass.

281. **Bowles, Oliver.** Asbestos. (In: J. E. Spurr, Political and commercial geology. New York, 1920. 8°. chapter 24, p. 388-401.) **PTK**

Uses, substitutes, geographical distribution, geological distribution, developments and changes in distribution of mines, political and commercial control, position of leading commercial nations.

32. — Asbestos. (In: United States. — Mines Bureau. Monthly reports of investigations, 1919–1920, unpaged. Washington, 1919–20.) **VHCA (U. S.)**

November, 1919: The history of asbestos paper. Amosite, a new type of asbestos. Chrysotile asbestos Virginia. Mountain leather in China.

The article on "Amosite" is also in *Engineering and mining journal*, 1920, v. 109, p. 264, **VHA**. For the story of asbestos paper see also *Chemical and metallurgical engineering*, 1920, v. 22, p. 208–209.

February, 1920: Asbestos in Apache county, Arizona. Asbestos in China. Asbestos pipe and wall tile.

The article on "Asbestos in Arizona" is also in *Engineering and mining journal*, 1920, v. 109, p. 767, **VHA**.

March, 1920: Blue asbestos.

Also in *Engineering and mining journal*, 1920, v. 109, 1311, **VHA**.

33. — Asbestos in Apache county, Arizona. (Asbestos, Philadelphia, 1920, v. 1, no. 1, p. 10.) **VHA**

34. — The asbestos industry in 1919. (*Engineering and mining journal*, New York, 1920, v. 109, p. 224–225.) **VHA**

35. — Asbestos in the Philippine Islands. Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 1.) **VHA**

Long fibered amphibole with pockets of chrysotile.

36. — Asbestos pipes and wall tile. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 24.) **VHA**

37. — Asbestos in South Africa. 2 p. United States. — Mines Bureau, Reports of investigations. Washington, 1920. no. 2179.) **VHCA**

Deals principally with occurrence and production in Rhodesia.

38. — Mountain leather in China. (Asbestos, Philadelphia, 1920, v. 1, no. 8, p. 28.) **VHA**

Brief notice of sample from Yunnan.

39. — A new type of asbestos in South Africa. (Asbestos, Philadelphia, 1920, v. 1, Feb., p. 27–28, March, p. 40–42.) **VHA**

Analysis and description of amosite, which occurs along the Elifants river.

40. — Production of asbestos in South Africa. (Cement, mill and quarry, Chicago, 1920, v. 17, Nov. 20, p. 26.) **VEO**

41. Brard, Cyprien Prosper. *Minéralogie appliquée aux arts*. Paris, 1821. 3 v. 8°. **PWH**

See v. 3, p. 381–385 for discussion of textile qualities asbestos.

42. Brauns, Reinhard Anton. *The mineral kingdom*. Translated, with additions, by J. J. Spencer. Philadelphia: J. B. Lippincott company, 1912. 4 p.l., 432 p., 91 l., 92 pl. illus. 1°. **PWD**

See p. 321 and 323 and plate 66 for amphibole asbestos and crocidolite.

43. Brindze, Ruth. Elwood J. Wilson. port. Asbestos, Philadelphia, 1925, v. 6, no. 7, p. 10–12.) **VHA**

Brief biography and portrait of prominent worker in the Canadian field.

294. — Greene, Tweed Company. (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 5, 7, 9.) **VHA**

Brief account of prominent makers of asbestos packing.

295. Brisson, Mathurin Jacques. *Pesanteur spécifique des corps. Ouvrage utile à l'histoire naturelle, à la physique, aux arts et au commerce*. Paris: Imprimerie Royale, 1787. xxiv, 453, xx p., 2 pl. 4°. **VBDG**

See p. 154–157 for brief descriptions and specific gravities of several varieties of amianthus and asbestos.

296. Brochant de Villiers, André Jean Marie. *Traité élémentaire de minéralogie suivant les principes du professeur Werner...* Paris, 1808. 2 v. 2. ed. 8°. **PWD**

See v. 1, p. 492–501 for bibliographical notes, characteristics, and occurrence of various types of asbestos.

297. Broegger, W. C., and H. H. REUSCH. *Vorkommen des Apatit in Norwegen*. illus. (Deutsche geologische Gesellschaft, Zeitschrift, Berlin, 1875, Bd. 27, p. 646–702.) **PTA**

See p. 662 and 681 for brief description of steatite-asbestos at Kragerø.

298. Bromberg, A. J. The gasket and its proper use. illus. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 5–7.) **VHA**

299. Brough, Bennett H. On griqualandite. (Chemical news, London, 1887, v. 56, p. 244.) **PKA**

"It is not a pseudomorph after crocidolite, but rather a fibrous hornblende or uraltite resulting from the alteration of that mineral." Author amends Hepburn's analysis (see entry no. 548).

300. Brown, John Coggin. ...Notes on asbestos... Calcutta: Superintendent Gov. Prtg., 1922. v, 31 p. tables. 4°. (India. — Industries Department. Bulletins of Indian industries and labour. no. 20.) **TAA (India)**

Varieties and properties; distribution in India; uses; opinions of manufacturers on Mysore asbestos; field tests.

301. Bryant, E. G. Amosite, its discovery and early history. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 4, p. 3–4, 6, 8.) **VHA**

302. — Chemical analysis of asbestos. (Asbestos, Philadelphia, 1928, v. 9, no. 10, p. 10, 13–14.) **VHA**

303. Buerner, R. Das letzte Jahrzehnt der deutschen Asbest-Industrie in statistischen Skizzen. diags. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 411–412.) **VMA**

Has three statistical charts showing progress 1889–1898.

304. Buffon, Georges Louis Leclerc, comte de. *Histoire naturelle des minéraux*. Paris, 1783–88. 6 v. 4°. **PQD**

v. 3, p. 78–91, *Amiante et asbeste*; p. 92–96, *Cuir et liège de montagne*.

305. Bureau of Mines issues three new cinematograph stories. Asbestos and sulphur traced graphically from vein to consumer's

hand. (Engineering and mining journal, New York, 1921, v. 111, p. 275.) **VHA**

306. **Butler, A. T.** Casper mountain asbestos. (Engineering and mining journal, New York, 1892, v. 53, p. 661.) **VHA**

Description of Wyoming deposit.

307. **Campbell, John Lyle.** Geology and mineral resources of the James River valley, Virginia, U. S. A. New York: G. P. Putnam's Sons, 1882. 119 p. illus. 8°. **PVC**

See p. 116. See also *The Virginias*, Staunton, Va., 1882, v. 3, p. 160, **VHA**.

308. **Camsell, Charles.** Geology, and mineral deposits of the Tulameen district, B. C. Ottawa: Gov. Prtg. Bureau, 1913. vii, 188, 10 p., 23 pl. 8°. (Canada. — Geological Survey Branch. Memoir no. 26.) **PTB (Canada)**

See p. 171-172.

309. **Canada.** — Geological Survey. Descriptive catalogue of a collection of the economic minerals of Canada, by the Geological Corps, Alfred R. C. Selwyn, Director. London: Printed by Alabaster, Passmore & Sons, 1886. xvi, 17-172 p. illus. 8°. **VHCB**

See p. 154-156.

At head of title: Colonial and Indian Exhibition, London, 1886.

310. **Canadian asbestos**, 1927. port. (Canadian mining journal, Gardenvale, Que., 1928, v. 49, p. 699.) **† VHA**

Statistics. Portrait of Mr. John A. Dresser.

311. **The Canadian asbestos merger.** (Engineering and mining journal, New York, 1925, v. 119, p. 955.) **VHA**

Editorial comment.

312. **The Canadian asbestos merger.** (India rubber journal, London, 1926, v. 71, p. 54.) **† VMV**

313. **Canadian asbestos merger** to be considered at stockholders' meeting, Dec. 18. (Engineering and mining journal, New York, 1925, v. 120, p. 907.) **VHA**

314. **The Canadian asbestos pits.** (Asbestos, Philadelphia, 1923, v. 5, no. 3, p. 5-6.) **VHA**

A tourist's impressions of the mine of Consolidated Asbestos, Ltd.

315. **Canadian asbestos and the Sherman act.** (Engineering and mining journal, New York, 1928, v. 125, p. 1001-1002.) **† VHA**

Editorial comment.

316. **Canadian asbestos and United States legislation.** (Canadian mining journal, Gardenvale, Que., 1928, v. 49, p. 265-266.) **† VHA**

317. **The Canadian government and asbestos.** (India rubber journal, London, 1922, v. 63, p. 224.) **† VMV**

Proposed embargo on export of raw asbestos.

318. **The Cape asbestos industry.** (India rubber journal, London, 1917, v. 53, Jan. 6, p. 7-10.) **VMV**

319. **Casamajor, P.** Note on asbestos filters. (Chemical news, London, 1883, v. 47, p. 17-18.) **PKA**

Abstract in *Journal of the Chemical Society*, v. 44, Abstracts, p. 506-507, **PKA**.

320. **Casper, R. M.** Improved field coil insulation for large salient-pole machines. illus. (Electric journal, Pittsburgh, 1925, v. 22, p. 24-25.) **VGA**

Uses asbestos cloth and asbestos paper. Abridged in *Asbestos*, Philadelphia, 1925, v. 6, no. 9, p. 24, 26, **VHA**.

321. **Charles, H. C.** Asbestos plays important part in stack repair. illus. (Asbestos, Philadelphia, 1927, v. 8, no. 10, April, p. 10-11.) **VHA**

322. — Asbestos as a seal. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 4, p. 12-14.) **VHA**

To prevent loss of heat and filtration of smoke in special designs.

323. — Asbestos shield for industrial furnaces. illus. (Asbestos, Philadelphia, 1927, v. 8, no. 7, Jan., p. 32, 34.) **VHA**

324. — The expansion joint and asbestos. illus. (Asbestos, Philadelphia, 1928, v. 9, no. 10, p. 3-4, 6.) **VHA**

Explains use of asbestos fire-felt.

325. **Charles Francis Sloane.** (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 15.) **VHA**

Obituary notice. Mr. Sloane was prominent in the Arizona field.

326. **Chemisch reine Asbestplatten.** (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 533, 640, 1124; 1921, Jahrg. 35, p. 470-471, 742-743, 1054; 1922-23, Jahrg. 37, p. 175, 213-214, 239.) **†† VMA**

Discusses meaning of "97-98 per cent" asbestos articles. Titles of articles vary.

327. **Chenevix, Richard.** Analyse de quelques pierres magnésiennes. (Annales de chimie, Paris, 1798, tome 28, p. 189-204.) **PAAL**

Tremolite, p. 195-198; asbestos, p. 201-202.

328. **Chester, Albert H.** On a fibrous variety of sepiolite from Utah. (American journal of science, New Haven, 1877, series 3, v. 13, p. 296-297.) **OA**

329. — Some misconceptions concerning asbestos. (Engineering and mining journal, New York, 1893, v. 55, p. 268, 531-532.) **†† VHA**

Two replies to articles by J. T. Donald. See entry no. 402.

330. **Chester, Albert H., and F. I. Cairns.** Crocidolite from Cumberland, R. I., with a discussion of this and allied minerals, and a method for the determination of ferrous oxide in insoluble silicates. (American journal of science, New Haven, Conn., 1887, series 3, v. 34, p. 108-116.) **OA**

Compare their analyses with those made on similar mineral from South Africa. Claim that Heddle's abritanite is a magnesian variety of crocidolite.

31. A Chinese asbestos factory. illus. (Asbestos, Rochdale, 1920, v. 3, p. 143.) **VLA**
Description and picture of asbestos pillow mentioned in Lady Hosiery's article (see entry no. 564).
32. The Chinese asbestos trade. (India rubber journal, London, 1927, v. 73, p. 390.)
† **VMV**
List of producing companies with some price quotations for finished products.
33. Christopher Huber. port. (Asbestos, Philadelphia, 1921, v. 3, no. 5, p. 22-23, 25.)
VHA
Mr. Huber is president of the Asbestos Fibre Spinning Co.
34. Chrysotile, crocidolite, and amosite. Engineering and mining journal, New York, 1920, v. 110, p. 911.)
VHA
Distinguishes these varieties.
35. Ciampini, John. An abstract of a letter, wrote some time since, by Signior John Ciampini of Rome, to Father Bernard Joseph a Jesu Maria, &c., concerning the asbestos, and manner of spinning and making an incombustible cloth thereof. illus. (Royal Society of London, Philosophical transactions, London, 1701, no. 273, p. 911-913.)
* **EC**
Interesting details of apparatus are illustrated in frontispiece.
36. Cirkel, Fritz. Asbestos; its occurrence, exploitation and uses. Ottawa, 1905. xiv, 169 p., 5 charts, 2 maps, 19 pl. 8°. (Canada.— Mines Department. [Mines Branch publication 11.])
VHCA (Canada)
Abstracted in *Engineering and mining journal*, New York, 1905, v. 80, p. 924-925, **VHA**.
German translation in *Gummi-Zeitung*, 1906, Jahrg. 0, p. 709-711, 762-764, 793-794, 817-818, 847-849, 72-874, †† **VMA**.
37. — Asbestos and graphite. (Stone, New York, 1907, v. 28, p. 161-164.)
VEA
38. — Asbestos in Quebec. (Engineering and mining journal, New York, 1908, v. 86, p. 461.)
VHA
Brief references to current activities.
39. — Chrysotile-asbestos; its occurrence, exploitation, milling and uses. Ottawa: Govt. Prtg. Bureau, 1910. 316 p., 2 diagrs., 1 map, 65 pl. illus. 8°. (Canada.— Mines Department. [Mines Branch publication] 69.)
PWK
Abstracted in *India rubber journal*, London, 1911, v. 42, p. 534-535, 629-630, 632, † **VMV**.
40. — Depth of asbestos deposits. illus. Canadian mining journal, Toronto, 1909, v. 0, p. 132-135.)
VHA
41. — The quarries of the Canadian asbestos district. Canada supplies most of the world's market; Asbestos occurs only in serpentine; Productive area restricted but large supply ahead. illus. (Engineering and mining journal, New York, 1910, v. 89, p. 918-920.)
VHA
42. — Vorkommen und Gewinnung von Asbest in Canada. diagrs., map. (Zeitschrift für praktische Geologie, Berlin, 1903, Jahrg. 11, p. 123-131.)
PTA
Abstracted in *Engineering and mining journal*, New York, 1903, v. 76, p. 509, **VHA**.
43. Clark, George L. The X-ray identification and specification of asbestos. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 2, p. 2-4, 6, 8, 10, 13-14.)
VHA
44. Clayton, E. G. Note on asbestos. (Chemical Society, Proceedings, London, 1901, v. 17, p. 203.)
PKA
Analyses of four amphibole samples, one of them of English origin. Also in *Gummi-Zeitung*, Dresden, 1902, Jahrg. 16, p. 355, †† **VMA**.
45. Cleaveland, Parker. An elementary treatise on mineralogy and geology designed for the use of pupils, for persons attending lectures on these subjects, and as a companion for travellers in the United States of America. Boston, 1822. 2 v. in 1. illus. 8°.
PWD
See p. 404-409 for occurrences, especially in the United States.
46. Cohen, E. [Letter from Griqualand to G. Leonard.] (Neues Jahrbuch für Mineralogie, Stuttgart, 1873, p. 52-56.)
PWA
Refers to the asbestos mountain of South Africa and discusses crocidolite and fibrous-quartz.
47. A Collection of trade catalogues covering asbestos products.
VHT n.c.1-4
v. 1: Asbestos Fibre Spinning Co., Canadian Asbestos Co., Perodo and Asbestos, Inc., General Asbestos and Rubber Co., H. F. Watson Co., Mohawk Asbestos Slate Co., Norristown Magnesia and Asbestos Co., Philip Carey Co., Russell Manufacturing Co. 12°.
v. 2: C. W. Trainer Mfg. Co., Canadian Asbestos Co., H. W. Johns-Manville Co., Philip Carey Co., United States Asbestos Co., Sall Mountain Co. 8°.
v. 3: Asbestos Shingle, Slate and Sheathing Co., Dominion Asbestos and Rubber Corporation, Gillen-Chambers Co., The Mikesell Company, Powhatan Mining Corporation. 8°.
v. 4: Asbestos Shingle, Slate and Sheathing Co., Ehret Magnesia Manufacturing Co., General Asbestos and Rubber Company, Keasby and Mattison Company, Multibestos Company, The Philip Carey Company, Rhodesian and General Asbestos Corporation, Ltd. 4°.
48. Colonel J. J. Penhale. (Asbestos, Philadelphia, 1926, v. 8, Sept., p. 3-4.)
VHA
Obituary notice.
49. Comstock, John Lee. An introduction to mineralogy; adapted to the use of schools. New York: Pratt, Woodford, Farmer, and Brace, 1854. 369 p. illus. 20. ed. 12°. **PWE**
See p. 164-166. Gives occurrences, especially in the United States.
50. Conder, Hartwell. Asbestos mining in Australia. illus. (Chemical engineering mining review, Melbourne, 1920, v. 13, p. 7-10.)
VHA
Occurrences and milling process described. Also in *Canadian mining journal*, Gardenvale, 1920, v. 41, p. 979-981, **VHA**.

351. **The Conference of asbestos packing manufacturers.** (Asbestos, Philadelphia, 1921, v. 3, no. 4, p. 24, 26, 28.) **VHA**
Conference at Navy Department, Sept. 13, 1921. List of those present and a brief statement of discussions.
352. **Conquist.** Das Ganze der Asbest-Verarbeitung. [Von Conquist.] Berlin: Union deutsche Verlagsgesellschaft [1913]. 66 p. 12°. **VLR**
353. **Construction of boiler settings in Devon station.** illus. (Power, New York, May 13, 1924, v. 59, p. 763-765.) **VFA**
Describes the use of asbestos for expansion joints. Abstracted in *Asbestos*, 1924, v. 6, no. 2, p. 30-31, **VHA**.
354. **Cook, George H.** Packings and "Ite" jointings. port. (India rubber journal, London, 1924, v. 68, p. 143-144.) **VMV**
355. **Coplands, M., and W. G. LLOYD.** On the action of asbestos on certain physiological substances. (British medical journal, London, Nov. 22, 1913, no. 2760, p. 1375-1377.) **WAA**
Investigation of filtering qualities of asbestos. Abstract in *Journal of the Society of Chemical Industry*, London, 1913, v. 32, p. 1171, **VOA**.
356. **Corcoran, Alfred B.** Asbestos used in the printing industry. (Asbestos, Philadelphia, 1926, v. 8, no. 6, Dec., p. 32, 34.) **VHA**
357. **Cornel, H.** Asbest und Asbestfarben. (Farbe und Lack, Hannover, 1926, p. 196-197.) **VOA**
Deals with fire resistance of asbestos and has some recipes for paints. Part of this article is translated in *Asbestos*, Philadelphia, 1926, v. 8, no. 2, p. 9, 11, 13, 16, **VHA**.
358. **Corsican asbestos.** (India rubber journal, London, 1911, v. 42, p. 146.) **VMV**
Long but brittle variety discovered on northeastern side of the island.
359. **Covel, Calvin.** Asbestos guards. (Asbestos, Philadelphia, 1925, v. 6, no. 11, p. 24.) **VHA**
Sheet asbestos for fire protection.
360. **Crawford, Andrew W.** Asbestos as a building material protection. illus. (Asbestos, Philadelphia, 1922, v. 4, no. 5, p. 10-12, 14, 16, 18, 20.) **VHA**
Describes uses and manufacture of asbestos protected metal made by the H. H. Robertson Company.
361. **Cronstedt, Axel Fredrik.** Cronstedts Versuch einer Mineralogie. Vermehret durch Brünlich. Copenhagen und Leipzig: C. G. Proft, and Rothens Erben, 1770. 20 p.l., 296 p. 16°. **PWE**
See p. 120-124 for classification, occurrence, and uses.
362. **Crook, Thomas.** Economic mineralogy; a practical guide to the study of useful minerals. London: Longmans, Green & Co., 1921. xi, 492 p. illus. 8°. **PWD**
Excellent brief descriptions of chrysotile, tremolite, anthophyllite, crocidolite, and amosite.
363. **Crudes vs. fibres.** (Asbestos, Philadelphia, 1921, v. 3, no. 1, p. 43.) **VHA**
Explains the difference.
364. **Currens, Warren W.** Asbestos. Examples of its early use. Derivation of the mineral. Different varieties and their values. (Mines and minerals, Scranton, Penn., 1912, v. 33, p. 229-230.) **VHA**
365. **Dana, Edward Salisbury.** A text-book of mineralogy, with an extended treatise on crystallography and physical mineralogy. 3. ed., revised and enlarged by William E. Ford. New York: John Wiley and Sons, Inc., 1922. ix, 720 p. illus. 8°. **PWE**
Library has issues of 1877, 1880, 1883, 1886, and 1908.
- 365a. **Dana, James Dwight.** The system of mineralogy of James Dwight Dana, 1837-1868. Descriptive mineralogy. 6th ed... by Edward Salisbury Dana... Entirely rewritten and much enlarged... With appendices I and II, completing the work to 1909. New York: John Wiley and Sons, Inc., 1914. lxiii, 1134, xi, 75, x, 114 p. illus. 4°. **PWL**
Occurrences, analyses, and bibliographical references to the asbestiform minerals.
366. **Darling, Charles R.** Some modern uses of asbestos. (India rubber journal, London, 1916, v. 52, p. 633-634, 637.) **VMV**
Good article on heat insulation, joints, building materials, and miscellaneous uses.
367. **Davis, J. W.** Shot drilling around Tethford mines. illus. (Canadian mining journal, Toronto, 1919, v. 40, p. 36-38.) **VHA**
Describes use of Calyx drill.
368. **Davis, Leslie A.** Foreign field notes. (Asbestos, Philadelphia, 1923, v. 4, no. 8, p. 24, 27-28.) **VHA**
Report of operations in Russia and Finland.
369. **Delesse, Achille Ernest Oscar Joseph.** [Le liège de montagne.] (Annales des mines, Paris, 1853, série 5, tome 3, p. 730-731.) **VHA**
3 - **VHA**
A. Erdmann's analysis of Swedish sample.
370. — **Recherches sur la minette.** (Académie des sciences, Comptes rendus, Paris, 1857, tome 44, p. 766-769.) **EO**
Analysis of crocidolite from Vosges mountains.
371. **Denis, Théophile C.** L'industrie de l'amiante de la province de Québec, Canada. Publié par autorité de l'Honorable Honoré Mercier, ministre de la colonisation, des mines et des pêcheries. Québec, 1917. 28 p. diagrs., map, plates. 8°. **PTI p.v.41, no.5**
372. **Dennison, E. Haldeman.** Quebec's asbestos shipments for Germany. (Asbestos, Philadelphia, 1923, v. 5, no. 4, p. 30, 33.) **VHA**
373. **The Density of crocidolite deposits.** (Asbestos, Philadelphia, 1924, v. 6, no. 5, p. 25, 26.) **VHA**
States that low density of South African product involves high mining and transportation charges.

4. **Des Cloizeaux**, Alfred Louis Olivier Le-
mande. Manuel de minéralogie. Tome 1.
Paris: Dunod, 1862. illus. 8°. **PWD**

See p. 77-92 for descriptions and analyses of minerals
of the amphibole group.

5. **Development** of the air cell idea. illus.
Asbestos, Philadelphia, 1928, v. 9, no. 12,
3-4, 6, 8, 10.) **VHA**

6. **Development** in Arizona. (Asbestos,
Philadelphia, 1920, v. 1, no. 12, p. 25-26.) **VHA**

7. **The Development** of the asbestos in-
dustry. illus. (India rubber journal, London,
1924, v. 68, p. 269-272.) **VMV**

Excellent history of early manufactures. Portraits
John Bell and of Sir James Allport. Abstracted in
Asbestos, Philadelphia, 1924, v. 6, no. 3, p. 28, 30-32,
H.A.

8. **Dewey**, Chester. A sketch of the geol-
ogy and mineralogy of the western part of
Massachusetts, and a small part of the ad-
jacent states. (American journal of science
and arts, New Haven, 1824, v. 8, p. 1-60.) **OA**

For occurrence of tremolite and asbestos see p. 46-47.

9. **Didier**, P. Sur l'attaque des silicates par
gaz sulfhydrique. (Académie des sciences,
Comptes rendus, Paris, 1899, tome 128, p.
286-1288.) * **EC**

Effect of H₂S.

10. **Diehl**, Isabel. Asbestophalt — the ideal
pavement. illus. (Asbestos, Philadelphia,
1924, v. 6, no. 6, p. 14-15, 17.) **VHA**

Asbestos added to bitumen prevents cracking.

11. — Idaho asbestos deposits. (Asbestos,
Philadelphia, 1924, v. 6, no. 3, p. 40.) **VHA**

Brief description of property fifteen miles east of
Amiah.

12. **Difficulties** of a great non-metallic min-
ing industry. (Engineering and mining jour-
nal-press, New York, 1924, v. 118, p. 602.) **VHA**

Discusses depression of Canadian industry.

13. **Difficulties** in selling asbestos materials.
Asbestos, Philadelphia, 1924, v. 6, no. 1, p.
2, 35-36.) **VHA**

14. **Diller**, Joseph Silas. Asbestos. (Mining
American, Denver, 1917, v. 74, June 16, p. 5.) **VHA**

Brief accounts of occurrences in the United States.

15. — Asbestos, what it is and does for
us. illus. (Tractor and gas engine review,
Madison, 1918, v. 11, April, p. 10-11.) **VFA**

16. — The types and modes of occurrence
of asbestos in the United States. (Canadian
Mining Institute, Quarterly bulletin, Mon-
real, 1911, no. 13, p. 45-58.) **VHA**

Abstract in *Journal of the Society of Chemical In-
dustry*, London, 1912, v. 31, p. 1181, **VOA**.

17. — The types, modes of occurrence,
and important deposits of asbestos in the
United States. maps. (In: United States. —

Geological Survey, Bulletin 470, Washing-
ton, 1911, p. 505-524.) **PTB (U.S.)**

Describes varieties found near Lowell, Vermont;
Casper, Wyoming; Grand Canyon of the Colorado in
Arizona; Kamiah, Idaho; and Bedford and Rockmount,
both in Virginia.

Abstracted in *Engineering and mining journal*, New
York, 1912, v. 93, p. 1283, **VHA**.

18. **Directions** for the study of non-ignitable
and self-extinguishing boards and mouldings
for electrical purposes. (Report received
from the British Electrical and Allied Indus-
tries Research Association.) (Institution of
Electrical Engineers, Journal, London, 1924,
v. 63, Dec., p. 51-59.) **VGA**

19. **Discovery** of asbestos in New South
Wales. (Society of Chemical Industry, Jour-
nal, London, May 30, 1891, v. 10, p. 498, 634.) **VOA**

20. **The Distribution** of asbestos. illus. (As-
bestos, Philadelphia, 1927, v. 8, no. 7, p. 2-4,
6, 8; no. 8, p. 2-4; no. 9, p. 6-8, 10; no. 11,
p. 3-4, 6, 8; no. 12, p. 18, 20, 22; 1927, v. 9,
no. 2, p. 16, 18, 20, 22; no. 3, p. 33-34; no. 4,
p. 24, 26-27; no. 6, p. 20, 22, 24, 27; 1928, no. 9,
p. 3-4, 6, 8, 11, 13-14; no. 12, p. 25-28, 30-32;
1928, v. 10, no. 3, p. 3-4, 6, 8, 10, 12.) **VHA**

Series of articles covering mine transportation; stor-
age or warehousing; packing; buying units; effect of
seasons on mining and industry; choice of manufac-
turing location; trade channels; competition; compar-
isons of mining methods; milling; and grading.

21. **Doelter y Cisterich**, Cornelio August.
Beziehungen zwischen Schmelzpunkt und
chemischer Zusammensetzung der Miner-
alien. (Mineralogische und petrographische
Mitteilungen, Wien, 1903, Neue Folge, Bd.
22, p. 297-321.) **PWA**

For melting points of various asbestiform minerals
see p. 311-313.

22. — Handbuch der Mineralchemie.
Unter Mitwirkung von 57 Fachgenossen,
herausgegeben mit Unterstützung der K.
Akademie der Wissenschaften in Wien, von
C. Doelter. Dresden and Leipzig: Theodor
Steinkopff, 1912-27. 7 v. 4°. **PNB**

See Bd. 2, Erste Hälfte, p. 349-356, 603-610, 740-
748 for analyses and characteristics, with numerous
bibliographical references, of asbestos and kindred min-
erals. Contains Fersmann's classification. The index
to analyses is very complete.

23. — Ueber die chemische Zusammen-
setzung des Arfvedsonits und verwandter
Mineralien. (Zeitschrift für Kristallographie
und Mineralogie, Leipzig, 1880, Bd. 4, p. 34-
41.) **PWA**

Analysis of crocidolite from Cape of Good Hope.

24. **Dolbear**, Samuel H. Asbestos. (Engi-
neering and mining journal, New York, 1924,
v. 117, p. 94.) **VHA**

Brief resumé of operations and production in Canada
during 1923.

25. **Doman**, W. A. Copper interest revived
in London. Rhodesian asbestos not able to
meet demand. (Engineering and mining
journal, New York, 1926, v. 122, p. 747.) **VHA**

News concerning operations at the Shabanie mine,
Rhodesia.

396. — [The Rhodesian asbestos fields.] (Engineering and mining journal, New York, 1928, v. 126, p. 190.) † VHA

Brief reference to outputs of Shabanie, Gath's, and Kings mines.

397. Domeyko, Ignacio. Mineralojía. Santiago, Chile: Servat i Ca., 1879. xviii, 762 p. illus. 3. ed. 8°. 3 - PWO

See p. 593-594 for brief statement of occurrences in Chile and Peru.

398. Donald, J. T. Canadian asbestos: its occurrence and uses. (Popular science monthly, New York, 1890, v. 36, p. 526-531.) * DA

Abstracted in *Engineering and mining journal*, New York, 1890, v. 49, p. 107, VHA.

399. — The chemical composition of asbestos. (Engineering and mining journal, New York, 1891, v. 51, p. 741.) VHA

Abstract in *Journal of the Society of Chemical Industry*, London, 1891, v. 10, p. 762, VOA.

400. — Notes on asbestos and some associated minerals. (Canadian record of science, Montreal, 1890, v. 4, p. 100-104.) PQA

Analyses of samples from Thetford and Lachute, Canada.

Abstract in *Journal of the Chemical Society*, London, 1895, v. 68, part 2, p. 116, PKA.

401. — The present status of the Canadian asbestos industry. (Engineering and mining journal, New York, 1894, v. 58, p. 296.) VHA

Brief statement of operations at the Jeffrey mine and description of the cyclone fiberizing machinery made by W. G. Costigan and Company.

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PTB (Canada)

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A picture giving an idea of the large amount of waste handled.

411. Dunk, A. J. Asbestos fibres. (Chemistry and industry, London, 1927, v. 46, p. 601-602.) VOA

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See p. 96 for references to samples found in different parts of the country.

414. Durchscheinendes Asbestpapier. (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 375.) †† VMV

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417. Duty on corded asbestos fiber. (Engineering and mining journal, New York, 1890, v. 61, p. 114.) VF

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2. The **Early** history of pipe covering, as used by veterans in the industry. illus. (Asbestos, Philadelphia, 1922, v. 4, no. 1, p. 5-10, 14, 17.) **VHA**
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485. **George Schafenacker.** port. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 8, 10.) **VHA**

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502. — Mining engineer Brigham prescribes for the industry. (Asbestos, Philadelphia, 1924, v. 6, no. 6, p. 28, 30.) VHA

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20. Hall, Arthur Lewis. The amosite deposits of the Transvaal. Occurrences unknown elsewhere. Unique length of fibre. Several valuable physical properties. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, p. 729-731.) †† **VHA**
21. — The asbestos resources of the Union of South Africa. The available varieties, with particulars of their distribution and mode of occurrence, including methods used in the recovery of the mineral, grading, etc. — extent of local consumption — the output of asbestos since union, list of producers and bibliography. (South African journal of industries, Pretoria, 1924, v. 7, p. 725-731.) **TLA**
22. — ... Asbestos in the Union of South Africa... Pretoria: Gov. Prtg. and Stationery Office, 1918. 152 p. illus. 8°. (Union of South Africa. — Geological Survey. Memoir no. 12.) **PTB (Union of South Africa)**
Author's summary and conclusions are in *South African mining and engineering journal*, Johannesburg, 1928, v. 39, part 1, p. 601-603, †† **VHA**. Abstract in *Engineering and mining journal*, New York, 1920, v. 109, p. 346-347, † **VHA**.
23. — The geology of the Barberton gold mining district, including adjoining portions of northern Swaziland. Pretoria, 1918. 347 p. illus. 4°. (Union of South Africa. — Geological Survey. Memoir no. 9.) **PTB (Union of South Africa)**
See index.
24. — The geology of the country north-east of Carolina. (Union of South Africa. — Geological Survey, Annual report for 1913. Pretoria, 1914. 4°. part 5, p. 33-60.) 3 - † **VHFA**
See p. 57-60.
25. — On the asbestos occurrences near Kaapsche Hoop, in the Barberton district. illus. (Geological Society of South Africa, Transactions, 1921, Johannesburg, 1922, v. 24, p. 168-181.) **PTA**
26. — On the mode of occurrence and distribution of asbestos in the Transvaal. (Geological Society of South Africa, Transactions, 1918, Johannesburg, 1919, v. 21, p. 1-36.) **PTA**
27. Hall, R. E. Asbestos. illus. (Tech engineering news, Cambridge, Mass., 1927, v. 8, p. 168, 182, 186, 188, 200.) † **VDA**
28. Harpell, J. J. The asbestos industry. (Canadian mining journal, Toronto, 1910, v. 31, p. 50-52.) **VHA**
Discusses South African and Russian competition in relation to Canadian producers.
29. Harrington, B. J. Ueber canadischen Spessartin und Bergkork. (Zeitschrift für Krystallographie, Leipzig, 1894, Bd. 22, p. 309-310.) **PWA**
Analyses of mountain cork from Buckingham, Canada.
30. Harris, C. P. Asbestos covering for steam pipes, their various formations. (Asbestos, Philadelphia, 1927, v. 8, no. 12, June, p. 6, 8, 10.) **VHA**
31. Harvie, Robert. Asbestos deposits of the province of Quebec. illus. maps. (In: Canada. — Geological Survey. Guide book no. 2. Excursions in the eastern townships of Quebec and the eastern part of Ontario. Ottawa, 1913. 12°. p. 99-117.) **PVA**
Has two excellent maps.
32. Harwood, Channing E. Brakeology. illus. (Asbestos, Philadelphia, 1923, v. 5, no. 1, p. 5-8, 10; no. 4, p. 5-8.) **VHA**
33. Haüy, René Just. *Traité de minéralogie*. Seconde édition, revue, corrigée et consid-

erablement augmentée. Paris, 1822-23. Text, 4 v., 8° and atlas, 4°. **PWD**

See v. 2, p. 388-389 for fibrous amphibole; p. 481-488 for properties, varieties, occurrence, and ancient uses of asbestos.

534. Hausmann, Johann Friedrich Ludwig. Handbuch der Mineralogie. Göttingen, 1813. 3 v. in 1. 1158 p. 12°. **3 - PWD**

See p. 734-741 for occurrence and characteristics of various varieties. Library also has 2. ed., 1818-47, **PWD**.

Paged continuously.

535. Hautpick, E. de. Russian asbestos deposits. (Mining journal, London, Aug. 3, 1912, v. 98, p. 783-784.) **3 - † VHA**

Describes occurrences in the Urals, Siberia, and the Caucasus. Abstracted in *Canadian mining journal*, 1912, v. 33, p. 576, **VHA**.

536. Havard, F. T. The condensation of fume and the neutralization of furnace gases. (American Institute of Mining Engineers, Transactions, New York, 1911, v. 41, p. 631-647.) **VHA**

Use of asbestos filter bags installed by Louis Fiechter.

537. Heckel, G. B. Asbestos in the paint industry. (Asbestos, Philadelphia, 1920, v. 2, no. 1, p. 5-8, 10.) **VHA**

538. Heddle, Matthew Forster. Chapters on the mineralogy of Scotland. Chapter fourth. — Augite, hornblende, and serpentinous change. (Royal Society of Edinburgh, Transactions, Edinburgh, 1879, v. 28, p. 453-555.) *** EC**

See p. 502-507 for analyses of amianthus, asbestos, tremolite, and nephrite.

"The purest and most flexible amianthus in Scotland — probably in the world — is to be found in the thin rifts in the diallage rock of Balta in Shetland." — p. 502.

539. — The county geognosy and mineralogy of Scotland. (Mineralogical magazine, London, 1879, v. 2, p. 9-35.) **PWA**

Description and analysis of amianthus from the Shetland islands.

540. — The mineralogy of Scotland, edited by J. G. Goodchild. Edinburgh: D. Douglas, 1901. 2 v. illus. 4°. **VHE**

Occurrence and descriptions of various asbestiform minerals in section on silicates, v. 2.

541. — Pilolite, an unrecognized species. (Mineralogical magazine, London, 1879, v. 2, p. 206-219.) **PWA**

Endeavors to show that mountain cork and mountain leather are distinct from amphibole or any other known mineral. Analyses of Scottish specimens.

542. — Preliminary notice of substances which may prove to be new minerals. (Mineralogical magazine, London, 1880, v. 3, p. 57-68.) **PWA**

Description and analysis of abriachanite. Abstracted in *Zeitschrift für Krystallographie*, Leipzig, 1881, Bd. 5, p. 620, **PWA**.

543. Heermann, P., and H. SOMMER. Die Bestimmung von Gemischen aus Asbest und

Baumwolle. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1921, Jahrg. 39, Heft 5, p. 315-329.) **VA**

Noteworthy article on the analysis of asbestos fabrics. Valuable tables on water-content, effects of temperature and acids, covering samples from various parts of the world. Abstracted in *Canadian textile journal*, April 24, 1923, **VLA**; *Journal of the Society of Chemical Industry*, London, 1922, v. 41, p. 745a, **VOA**; *India rubber world*, New York, 1923, v. 67, p. 361, † **VMV**; *Gummi-Zeitung*, 1922, Jahrg. 37, p. 176-177, †† **VMA**.

544. — Zur Kenntnis der Asbeste und die Bestimmung von Gemischen aus Asbeste und Baumwolle. (Textilberichte über Wissenschaft, Industrie und Handel, Mannheim, 1922, Jahrg. 3, p. 338-340, 361-363, 382-384.) **VLA (Melland)**

Practically the same as entry no. 543.

545. Heil, Adolf. La fabrication des tissus d'amiante. illus. (Caoutchouc & gutta-percha, Paris, 1912, année 9, p. 5833-5838, 5949-5950, 6033-6034, 6136-6139, 6319-6323, 6384-6387, 6638; 1913, année 10, p. 7854-7856; 1914, année 11, p. 8184-8191.) **VMV**

Describes and illustrates machinery.

546. Henderson, J. Chrysotile asbestos in the upper Takaka district. (New Zealand journal of science and technology, Wellington, 1923, v. 6, p. 120-123.) **OA**

Abstracted in *Asbestos*, Philadelphia, 1924, v. 6, no. 2, p. 27-28, **VHA**.

547. Henry Melville Whitney. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 31-32, 34.) **VHA**

Mr. Whitney was prominently identified with the Canadian asbestos industry.

548. Hepburn, G. Grant. Griqualandite, a pseudomorph of crocidolite. (Chemical news, London, 1887, v. 85, p. 240.) **PKA**

Has analysis.

549. Hermann, R. Untersuchungen russischer Mineralien. (Journal für praktische Chemie, Leipzig, 1845, Jahrg. 1845, Bd. 1, p. 177-181.) **PKA**

See p. 180-181 for analysis of mountain-wood from Ural mountains.

550. Herstellung von Asbestpappe. (Papier-Zeitung, Berlin, 1921, Jahrg. 46, p. 2351-2352.) **3 - †† VMA**

551. Herzberg, W. Handelsbrauch im Verkehr mit Asbestpappe. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1922, Jahrg. 40, Heft 6, p. 293-294.) **3 - VEA**

Also in *Wochenblatt für Papierfabrikation*, Stuttgart, 1923, Jahrg. 54, Nr. 26, p. 1856-1857, †† **VMPA**.

552. — Kleine Mitteilungen aus der Abteilung für Papierprüfung. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1921, Jahrg. 39, Heft 2, p. 140-148.) **3 - VEA**

For tests on asbestos boards see p. 145-148.

553. Hinard, G. La porcelaine d'amiante. Son emploi à la filtration des liquides ali-

mentaires et des sérums. illus. (Société d'encouragement pour l'industrie nationale, Bulletin, Paris, 1913, tome 119, sem. 1, p. 253-265.) **VA**

Abstract in *Journal of the Society of Chemical Industry*, London, 1913, v. 32, p. 446-447, *VOA*.

554. Hintze, Carl. Handbuch der Mineralogie. Leipzig: Veit & Co., 1898-1916. 2 v. **PWD**

See Bd. 2, p. 766-767, 1194-1197 for discussion as to nomenclature.

555. Hirsch, William Crawford. Asbestos—its use in the electrical industry. illus. (Electrical record, New York, 1925, v. 37, Jan., p. 12-13.) **VGA**

556. Hisinger, Wilhelm. Versuch einer mineralogischen Geographie von Schweden, übersetzt und mit Erläuterungen und Zusätzen versehen von K. A. Blöde. Freyberg: Craz und Gerlach, 1819. xii, 567 p. 12°. **VHE**

Occurrences briefly referred to on p. 56, 74, 90, 123, 125, 132, 164, 219, 225-227.

557. Hoffmann, Karl August Siegfried. Handbuch der Mineralogie. Freyberg: Craz und Gerlach, 1811-18. 4 v. 8°. **PWD**

Characteristics and uses.

558. Hoffmann, Th. Über Asbest, seine Auswahl und Eignung für technische Verwendung. (Chemische Apparatur, Leipzig, 1928, Jahrg. 1928, Korrosion Supplement, Jahrg. 3, p. 21-22, 33-34.) **†VOA**

559. Hollywood asbestos. (Asbestos, Philadelphia, 1924, v. 5, no. 10, p. 30.) **VHA**

Stated to be an unusually high-resistant of heat and acids. Mine is in Georgia.

560. The Hon. George R. Smith. port. (Asbestos, Philadelphia, 1922, v. 3, no. 7, p. 20-22.) **VHA**

A pioneer in the Canadian field.

561. Hopkins, Oliver Baker. Asbestos deposits of Georgia. (American Institute of Mining Engineers, Transactions, New York, 1915, v. 50, p. 964-973.) **VHA**

562. — A report on the asbestos, talc and soapstone deposits of Georgia. Atlanta: C. P. Byrd, 1914. xv, 319 p. illus. 4°. (Georgia.—Geological Survey. Bulletin 29.) **PTB (Georgia)**

Analyses, insulating tests, origin, uses, mining methods, with descriptions of deposits in Canada, Vermont, Virginia, Wyoming, Idaho, California, Arizona.

563. Hore, Reginald E. Asbestos mining in Quebec. illus. (Canadian mining journal, Toronto, 1913, v. 34, p. 633-636.) **VHA**

Briefly describes mining methods and mill treatment.

564. Hosie, Lady Dorothea. A Chinese asbestos factory. illus. (Asbestos, Rochdale, 1920, v. 3, p. 64-65, 101-105.) **VLA**

Abstracted in *Asbestos*, Philadelphia, 1920, v. 2, no. 3, p. 31-33, *VHA*; *India rubber journal*, London, 1920, v. 60, p. 115-116, *†VMV*.

565. How asbestos cloth or asbestos fibre is waterproofed and coloured. (India rubber journal, London, 1926, v. 71, p. 390.) **†VMV**

566. Howard, Ralph. The role of asbestos. Some facts on the growing importance of this substance in industry and architecture. illus. (Scientific American, New York, 1920, v. 123, p. 42, 52.) **VA**

567. Hoyle, John Thomas. Asbestos, "the unquenchable stone"; a brief account of the romantic history and dramatic rise of the most interesting mineral in the world. Buffalo, N. Y.: The Republic Asbestos Board Corporation [cop. 1927], 45 p. illus. 8°. **VHBD p.v.81**

568. Hubbard, Wynant D. The Black Lake asbestos area. District rich in chrysotile asbestos deposited in serpentine. Open-pit mining using derricks and cables is the usual practice. Much labor required. Welfare work not general. illus. (Engineering and mining journal, New York, 1921, v. 112, p. 365-368.) **VHA**

For criticism of this article see C. C. Lindsay, entry no. 641.

569. — Mr. Hubbard and the Black Lake asbestos mines. (Engineering and mining journal, New York, 1921, v. 112, p. 683.) **VHA**

Reply to article by C. C. Lindsay. See entry no. 641.

570. Idaho-Montana Asbestos Co. plans to build mill. (Engineering and mining journal, New York, 1925, v. 119, p. 617.) **VHA**

Produces golden yellow chrysotile of spinning quality.

571. Iddings, Joseph Paxson. Rock minerals; their chemical and physical characters and their determination in thin sections. New York: John Wiley and Sons, 1911. xiii, 617 p., 2 charts. 2. ed. 8°. **PWS**

Amphibole group, p. 345-373.

572. L'Industria dell' asbesto in Russia. (Associazione mineraria italiana, Bollettino, Roma, 1926, anno 8, p. 593-595.) **†VHA**

General article with statistics.

573. International Asbestos Mills Co., and others. (Engineering and mining journal, New York, 1912, v. 94, p. 83.) **VHA**

Promoters of above company, also of the North American Asbestos Company, and the Consolidated Asbestos Company, indicted by Federal jury for using mails to defraud.

574. Iskuell, Wold. Über den Rhodusite vom Flusse Asskys (Bergbezirk Minussinsk in Siberien). Beiträge zur Kenntnis seiner chemischen Constitution und Verwitterung. (Zeitschrift für Krystallographie, Leipzig, 1908, Bd. 44, p. 370-389.) **PWA**

Analyses.

575. Ivanov, V. N. [New method of precipitating platinum and analysis of platinized asbestos.] (Russian Physico-chemical Society, Journal, Petrograd, 1916, v. 48, p. 527-529.) **PKA**

In Russian.

Abstract in *Journal of the Society of Chemical Industry*, London, 1917, v. 36, p. 290, *VOA*.

(To be continued)

INTERESTING RECENT ADDITIONS

WHAT IS AN ILLUSTRATED BOOK?

The following list of books acquired in recent years touches various phases and periods of a richly varied subject.

General Works

Blum, André. ...Les origines du livre à gravures en France; les incunables typographiques. Paris: G. van Oest, 1928. xi, 99 p. f°. †MDT

McMurtrie, Douglas Crawford. Book decoration. Pelham, N. Y.: Bridgman Publishers, 1928. 63 p. 8°. MDT

Pennell, Joseph. The illustration of books; a manual for the use of students, notes for a course of lectures at the Slade School, University College. New York: The Century Co. [1896?] xii, 168 p. 12°. MDR

Reid, Forrest. Illustrators of the sixties. London: Faber & Gwyer, Ltd. [1928.] xv, 295 p. illus. 4°. MDT

Ruemann, Arthur. ...Die illustrierten deutschen Bücher des 18. Jahrhunderts, von Dr. Arthur Rümann, unter dem Patronat der Schweizer Bibliophilengesellschaft. Stuttgart: J. Hoffmann [1927]. vii, 231 p. 12°. (Taschenbibliographien für Büchersammler. [Bd.] 5.) MDT

Individual Illustrators

AMMAN, Jost. ...Staende und Handwerker, mit Versen von Hans Sachs. Aus dem Jahre 1568. [München: G. Hirth, 1923.] 114 p. illus. 8°. MEM

CHODOWIECKI, Daniel Nicolaus. Chodowiecki, von Ludwig Kaemmerer... [Liebhaber-Ausg.] Bielefeld und Leipzig: Velhagen & Klasing, 1897. 3 p.l., (1)6-131 p. illus. 4°. (Künstler-Monographien... 21.) MDG

CHOFFARD, Pierre Philippe. ...Choffard, by Vera Salomons; illustrated with 29 photographs from negatives by the author. London: J. & E. Bumpus, Ltd., 1912. 3 p.l., 3-112 p., 1 l., 22 pl. 8°. (XVIIIth century French book-illustrators.) MDT

COCHIN, Charles Nicolas. L'art français au dix-huitième siècle. Charles-Nicolas Cochin; graveur et dessinateur (1715-1790), par S. Rocheblave... Paris: G. Vanoest, 1927. 110 p., 72 pl., 1 port. 4°. MDG

CRUIKSHANK, George. A bibliographical catalogue of the printed works illustrated by George Cruikshank. By Albert M. Cohn. London: Longmans, Green, and Co., 1914. 226 p. 4°. MDT

CRUIKSHANK, George. George Cruikshank; a catalogue raisonné of the work executed

during the years 1806-1877, with collations, notes, approximate values...by Albert M. Cohn. London: The Bookman's Journal, 1924. xvi, 375 p. illus. 4°. †MDG

CRUIKSHANK, George. A catalogue of the works illustrated by George Cruikshank and Isaac and Robert Cruikshank in the library of Harry Elkins Widener, by A. S. W. Rosenschach. Philadelphia: Privately printed, 1918. 5 p.l., 279 p., 1 pl. 4°. †MDG

Frontispiece accompanied by guard-sheet with descriptive letterpress.

Half-title: The Harry Elkins Widener Collection of books illustrated by Isaac, George and Robert Cruikshank. The Harry Elkins Widener Memorial Library, Harvard University.

FRASER, Claud Lovat. Claud Lovat Fraser, by John Drinkwater and Albert Rutherford, with representative examples of his work... New York: A. A. Knopf, 1923. 39 p., 39 pl., 1 port. f°. †MEM

FRASER, Claud Lovat. The printed work of Claud Lovat Fraser. London: H. Danielson, 1923. x, 106 p. illus. 4°. MDG

Compiled by Christopher S. Millard.

GREENAWAY, Kate. Kate Greenaway pictures from originals presented by her to John Ruskin and other personal friends (hitherto unpublished). With an appreciation by H. M. Cundall... London and New York: F. Warne and Co., Ltd., 1921. 11 p., 20 pl., 1 port. f°. †MEM

PYLE, Howard. Howard Pyle; a record of his illustrations and writings, compiled by Willard S. Morse and Gertrude Brinckle. Wilmington, Del.: The Wilmington Society of the Fine Arts, 1921. 2 p.l., iii-x, 217, [24], 219-242 p. illus. 8°. MDG

RACKHAM, Arthur. Arthur Rackham; a list of books illustrated by him, compiled by Frederick Coykendall, with an introductory note by Martin Birnbaum. [Mount Vernon, N. Y.:] Privately printed [at the Printing House of W. E. Rudge], 1922. 22 p. illus. 8°. MDG

ROWLANDSON, Thomas. Catalogue of the books illustrated by Thomas Rowlandson, exhibited at the Grolier Club, November 2 to November 23. New York: [De Vinne Press,] 1916. xiv, 109 (1) p. 12°. MDG

LITERATURE

Ball, Francis Eldrington. Swift's verse; an essay. London: J. Murray [1929]. xv, 402 p. 8°. NCC (Swift)

Borgman, Albert Stephens. Thomas Shadwell; his life and comedies. New York City:

Literature, continued.

New York University Press, 1928. x, 269 p. 8°. **NCC (Shadwell)**

Conway, Robert Seymour. Harvard lectures on the Vergilian age. Cambridge: Harvard University Press, 1928. viii p., 31., (1)4-162 p., 16 pl. 8°. **NTM**

Contents: The proscription of 43 B. C. Where was Vergil's farm? The golden bough. The house of the high priest. An unnoticed aspect of Vergil's personality. Under Hannibal's shadow. The philosophy of Vergil. The portrait of a Roman noble. The architecture of the epic.

Cox, Edwin Marion. Mental handicaps in literature. With foreword by Theo. B. Hysslop... Covent Garden: Baillière, Tindall & Cox, 1929. xi, 92 p. 16°. (Mental handicaps series.) **NAD**

Esdaile, Arundell James Kennedy. The sources of English literature, a guide for students, Sandars lectures 1926. Cambridge: At the University Press, 1928. vii, 130 p., 11. 12°. (Sandars lectures, Cambridge University.) **NCB**

Foerster, Norman, editor. The reinterpretation of American literature; some contributions toward the understanding of its historical development, edited by Norman Foerster for the American Literature Group of the Modern Language Association. New York: Harcourt, Brace and Company, 1928. xiv, 271 p. 8°. ***R-NBB**

Contents: A call for a literary historian, by F. L. Pattee. Factors in American literary history, by N. Foerster. The frontier, by J. B. Hubbell. The European background, by H. M. Jones. The Puritan tradition, by K. B. Murdock. The romantic movement, by P. Kaufman. The development of realism, by V. L. Parrington. American history and American literary history, by A. M. Schlesinger. American literary history and American literature, by H. H. Clark. Appendix A. Select bibliography, by F. Paine (p. 217-236). Appendix B. List of dissertations and articles, and of Americana in libraries, by E. E. Leisy (p. 237-271).

Giraud, Victor. Hippolyte Taine; études et documents. Paris: J. Vrin, 1928. 299 p. 12°. **NKC (Taine)**

Grabo, Carl Henry. The technique of the novel. New York, Chicago: C. Scribner's Sons [cop. 1928], xviii p., 1 l., 331 p. 12°. **NAL**

Holdsworth, William Searle. Charles Dickens as a legal historian. New Haven: Yale University Press, 1928. 4 p.l., 157 p. 8°. (The [William L.] Storrs lectures. [1927.]) **NCC (Dickens)**

"Addresses... delivered in the William L. Storrs lecture series, 1927, before the Law School of Yale University."

Contents: The courts and dwellings of the lawyers. The lawyers, lawyers' clerks, and other satellites of the law. Bleak house and the procedure of the Court of Chancery. Pickwick and the procedure of the common law. Index.

Legouis, Pierre. André Marvell, poète, puritain, patriote, 1621-1678. Paris: H. Didier, 1928. xi, 514 p. 8°. **NCC (Marvell)**

Lemonnier, Léon. ...Les traducteurs d'Edgar Poe en France, de 1845 à 1875: Charles Baudelaire. Paris: Presses universitaires de France, 1928. 214 p. 8°. **NBC (Poe)**

Leuchs, Frederick Adolph Herman. The early German theatre in New York, 1840-1872. New York: Columbia University Press, 1928. xxi, 298 p. 8°. **NBL**

Malone, Andrew E. The Irish drama. London: Constable & Co., Ltd., 1929. 351 p. 8°. **NCC**

May, Marcel. ...La jeunesse de William Beckford et la genèse de son "Vathek." Paris: Les Presses universitaires de France, 1928. 437 p. illus. 8°, **NCC (Beckford)**

Miller, Walter. Daedalus and Thespis; the contributions of the ancient dramatic poets to our knowledge of the arts and crafts of Greece. v. 1. New York: The Macmillan Company, 1929. 4°. **NSA**
v. 1. Architecture and topography.

Nelson, William Hamilton. Tinker and thinker: John Bunyan, 1628-1688. Chicago, New York: Willett, Clark & Colby, 1928. 6 p.l., 169 p. illus. 12°. ***NE**

Norman, Hilda Laura. Swindlers & rogues in French drama. Chicago, Ill.: The University of Chicago Press [cop. 1928], ix p., 1 l., 259 p. illus. 8°. **NKL**

Paull, Harry Major. Literary ethics; a study in the growth of the literary conscience. London: T. Butterworth, Ltd. [1928.], 358 p. 8°. **NADC**

Robinson, Henry Crabb. Crabb Robinson in Germany, 1800-1805; extracts from his correspondence, edited by Edith J. Morley. London: Oxford University Press, 1929. 194 p., 1 map. 8°. **NDD**

Rose, William, and J. Isaacs, editors. Contemporary movements in European literature; edited by William Rose... and J. Isaacs... London: G. Routledge and Sons, Ltd., 1928. xi, 289 p. 8°. **NABR**

Contents: Preface. Isaacs, J., England. Saurat, D., France. Rose, W., Germany. Pastor, A. R., Spain. Del Re, A., Italy. Mirsky, D. S., prince, Russia. Robertson, J. G., Scandinavia. Selver, P., Czechoslovakia. Haantjes, J., Holland. Bibliographies. Index.

Temple, Dorothy (Osborne), lady. The letters of Dorothy Osborne to William Temple; edited, by permission of Sir Edward Parry and of his publishers Messrs. Sherratt and Hughes, Ltd., and Messrs. J. M. Dent and Sons, Ltd., by G. C. Moore Smith. Oxford: Clarendon Press, 1928. li, 330 p. illus. 8°. **NDD**

Thomas, Sir William Beach. The story of the Spectator, 1828-1928. London: Methuen & Co., Ltd. [1928.], ix, 250 p. illus. 8°. **NARL**

Literature, continued.

Williams, Harold Herbert. Outlines of modern English literature, 1890-1914. London: Sidgwick & Jackson, Ltd., 1928. 268 p. 12°. **NCB**

Wimberly, Lowry Charles. Folklore in the English & Scottish ballads. Chicago, Ill.: The University of Chicago Press [cop. 1928]. xiii, 465(1) p. 8°. **NCID**

Wise, Thomas James. A Browning library; a catalogue of printed books, manuscripts and autograph letters by Robert Browning and Elizabeth Barrett Browning; collected by Thomas James Wise... London: Printed for private circulation only, 1929. xxxii, 126 p. illus. 4°. **NCC (Browning)**

PHILOSOPHY AND RELIGION

Caesarius von Heisterbach. The dialogue on miracles, [by] Caesarius of Heisterbach (1220-1235); translated by H. von E. Scott and C. C. Swinton Bland, with an introduction by G. G. Coulton. London: G. Routledge & Sons, Ltd., 1929. 2 v. illus. 8°. (Broadway medieval library.) **ZEW**

Carr, Herbert Wildon. Leibniz. Boston: Little, Brown and Co., 1929. vi, 222 p. 8°. (Leaders of philosophy.) **YBX**

Chetwood, Thomas B. ...God and creation; an epitome of the fundamental truths of religion as found in the Scriptures and in the tradition of the church, together with the arguments from human reason; a textbook for colleges and universities. New York, Cincinnati: Benziger Brothers, 1928. 2 p.l., 7-291 p. 8°. (The truth of Christianity series.) **ZM**

Chevalier, Jacques. Henri Bergson. Authorized translation by Lilian A. Clare. London: Rider & Co., 1928. xxi, 351 p. 8°. **YBX**

Coghill, G. E. Anatomy and the problem of behaviour. Cambridge [Eng.]: University Press, 1929. xii, 110 p. illus. 8°. **YET**

Lectures delivered at University College, London.

Dark, Sidney. ...Five deans: John Colet, John Donne, Jonathan Swift, Arthur Penrhyn Stanley, William Ralph Inge. New York: Harcourt, Brace and Company [cop. 1928]. 255 p. 8°. **AB**

Ferguson, Charles Wright. The confusion of tongues; a review of modern isms. Garden City, N. Y.: Doubleday, Doran & Company, Inc., 1928. 7 p.l., 464 p. illus. 8°. **ZAY**

Freud, Sigmund. The ego and the id. Authorized translation by Joan Riviere. London: L. & Virginia Woolf at the Hogarth Press, and the Institute of Psycho-analysis, 1927. 88 p. diags. 8°. (The international psycho-analytical library, edited by Ernest Jones. no. 12.) **YEK (International)**

Graham, Rose. English ecclesiastical studies, being some essays in research in medieval history. London: Society for Promoting Christian Knowledge, 1929. xiii, 463 p. illus. 8°. **ZLP**

Hingston, Richard William George. Problems of instinct and intelligence. London: E. Arnold & Co., 1928. vii, 296 p. illus. 8°. **YEM**

Jung, Carl Gustav. Contributions to analytical psychology, by C. G. Jung; translated by H. G. and Cary F. Baynes. New York: Harcourt, Brace & Co., 1928. xi, 410 p. 8°. (International library of psychology, philosophy and scientific method.) **YEK**

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WESLEY, John. John Wesley among the scientists, by Frank W. Collier... New York, Cincinnati: The Abingdon Press [cop. 1928]. 351 p., 1 port. 12°. **AN**

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Individual Biography, continued.

WILLIAMS, Sir Charles Hanbury. The life of Sir Charles Hanbury-Williams; poet, wit and diplomatist, by the Earl of Ilchester and Mrs. Langford-Brooke. London: T. Butterworth, Ltd. [1929.] 447 p. illus. 8°. **AN**

WITTMANN, George Michael. Life and work of the Right Reverend George Michael Wittmann, bishop of Ratisbon, by Rev. R. Mittermueller, o.s.b.; translated from the German by a school sister of Notre Dame. Milwaukee, Wis.: The Bruce Publishing Company, 1928. 202 p. illus. 8°. **AN**

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INDUSTRIES AND INDUSTRIAL ARTS

* **Baillie, G. H.** Watches, their history, decoration and mechanism. London: Methuen and Company, Ltd., 1929. xxiii, 383 p. illus. 4°. 42s. **OYM (117)**

Attractive quarto volume, with an historical background, describing and illustrating (partly in color) some of the older types of cases and works. Includes a chapter on the early history of clocks; a chronology of watches; and an annotated bibliography.

* **Bliss, Henry Evelyn.** The organization of knowledge and the system of the sciences, with an introduction by John Dewey. New York: Henry Holt and Co., 1929. xx, 433 p. 8°. \$5.00. **OAP (117)**

This sizable work by the Associate Librarian of the College of the City of New York is essentially a philosophical study of the logical principles which should govern the classification of knowledge, especially as regards the needs of libraries. Includes an historical survey of various systems from the time of Plato to the present.

Brand, Violet. Practical flower making. London and New York: Isaac Pitman and Sons, 1929. viii, 106 p. illus. 12°. \$1.00. **VNK (121)**

Graded, well illustrated "home" methods requiring only the simplest tools and materials.

* **Clapperton, Robert Henderson, and W. HENDERSON.** Modern paper-making, with a foreword by Arthur Baker. London: Ernest Benn Ltd., 1929. xiv, 365 p. illus. 4°. 31s.6d. **VMP (121)**

For mill workers and technical students. Concise accounts of materials, machinery, and manufacturing processes for various papers, with chapters on paper testing, water supply, dyeing, and the use of bamboo as a material. Most of the numerous illustrations are of the trade catalogue type.

Eadie, Tom. I like diving, a professional's story, with an introduction by Rear-Admiral Philip Andrews, U. S. N. Boston: Houghton Mifflin Company, 1929. xiv, 245 p. illus. port. 8°. \$3.50. **VDM (121)**

The dangers and thrills of the profession set forth in an easy simple style by the hero of the submarine S-4. A good book for boys.

Hunt, Leslie L. 25 kites that fly. Milwaukee: The Bruce Publishing Company, 1929. xiv, 110 p. illus. 8°. \$1.25. **VNK (121)**

Amplify illustrated instructions involving the commonest materials. Covers plane-surface, tailless, and compound kites, various accessories, with hints on flying.

* **Imlay, L. E.** Mechanical characteristics of transmission lines. East Pittsburgh, Penn.: Westinghouse Night School Press, 1928. vii, 72 p. illus. 4°. \$3.00. † **VGM (121)**

Well illustrated and carefully diagrammed work showing conditions under which the line must operate, with instruction in span formulas and general methods of calculation. Insulators and the hanging of the conductors are described, and three chapters are devoted to tower details. Chapters are also given to economics, cost, and descriptions of some important long span installations. Author is consulting engineer to the Niagara Falls Power Company.

Marsh, J. E. The origins and the growth of chemical science. London: John Murray, 1929. x, 161 p. ports. 12°. 5s. **PKB (119)**

Traces the gradual growth of chemical theory from the early ideas concerning fire down to modern conceptions, emphasizing the works of Black, Lavoisier and Kekulé. Author is a fellow of Merton College, Oxford.

Monteith, Charles N. Simple aerodynamics and the airplane, with supplementary chapters and construction, equipment, navigation, and the military airplane, by Captain E. E. Aldrin and technical specialists of the Air Corps, U. S. Army. Third edition revised by [Colonel] C. C. Carter. New York: The Ronald Press Company, 1929. xiii, 418 p. illus. 8°. \$4.50. **VDY (121)**

Revision of text-book used in a short course at the United States Military Academy.

"The presentation is not highly technical but sound fundamental principles have been developed and applied and sufficient descriptive matter added to equip the cadet in such elements of this subject as may be helpful to him in his professional work."—*Preface.*

Nilson, Arthur R., and J. L. HORNUNG. Radio operating. Questions and answers formerly published under the title of Radio questions and answers. New York: McGraw-Hill Book Company, Inc., 1929. ix, 267 p. illus. 8°. \$2.00. **TTF (121)**

For commercial and amateur operators about to take government and civil service examinations in radio telegraphy. First published in 1921 and now enlarged and revised to meet legal and technical changes. Covers transmitting and receiving apparatus, the radio compass, storage batteries, motors and generators, radio laws and traffic regulations, general and theoretical questions, broadcasting transmitters, and amateur-station operation. Intended to be used in connection with the authors' *Practical radio telegraphy* (1928). (See *New technical books*, 1928, v. xiii, p. 9.)

Packer, A. H. Electrical trouble shooting on the motor car and airplane. Chicago: A. H. Packer, 8115 Harper Avenue, 1929. xii, 531 p. 2. ed. 12°. \$4.00. **TON (121)**

Fundamental electrical principles are explained in a way to be of service to the shop mechanic. Each device is carefully described and diagrammed, and instructions are given for tests and kinks. Numerous questions and answers. Author was formerly associate editor of the *Motor age*.

Pagé, Victor W. Model T and A Ford cars, also Fordson farm tractor. The most up-to-date and complete practical treatise ex-

Industries and Industrial Arts, continued.

aining the operating principles of all parts of both model T and model A Ford automobiles with instructions for driving, maintenance and repairing; also complete instructions on the Fordson tractor... New York: The Norman W. Henley Publishing Company, 1928. 574 p. rev. & enl. ed. illus. 12°. 2.00.

TON (121)

Reprint of the 1926 edition, which dealt with the model T car, with addition of a section dealing with the model A.

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Allen, Gardner Weld. Our navy and the West Indian pirates. With an introduction by Rear Admiral Caspar F. Goodrich... Salem, Mass.: Essex Institute, 1929. xii, 107 p. illus. 8°. VXC

Andrews, Matthew Page. History of Maryland: province and state... Garden City, N. Y.: Doubleday, Doran & Company, Inc., 1929. x p., 31, 721 p. illus. 8°. ISG

Bergh-Marggraff, R. de. In *Latijnsch Amerika*. 's-Gravenhage: H. P. Leopold, 1928. 239 p. illus. 8°. HCK

Borden, Sir Robert Laird. Canada in the Commonwealth: from conflict to co-operation. Oxford: Clarendon Press, 1929. xv, 144 p. 8°. HWB

Crowther, Samuel. The romance and rise of the American tropics. Garden City, N. Y.: Doubleday, Doran & Company, Inc., 1929. xvii p., 11, 390 p. illus. 8°. HMA

Davis, William Heath. Seventy-five years in California; a history of events and life in California... Edited and with an historical foreword and index by Douglas S. Watson. San Francisco: John Howell, 1929. xxxii, 222 p., 11, 11. illus. f°. IXG

Frank, Waldo David. The re-discovery of America; an introduction to a philosophy of American life. New York, London: Charles Scribner's Sons, 1929. x, 353 p. 8°. ILH

Gettell, Raymond Garfield. History of American political thought. New York & London: The Century Co. [cop. 1928.] ix, 333 p. 8°. (Century political science series.) ID

Ghent, William James. The road to Oregon; a chronicle of the great emigrant trail, with 32 illustrations and a map. New York, London: Longmans, Green and Co., 1929. vi p., 11, 274 p. 8°. IW

Glazebrook, George Parkin de Twenebroeker. Sir Charles Bagot in Canada; a study in British colonial government. [London:] Oxford University Press, 1929. vi, 160 p., 8°. HWP

Grinnell, George Bird. Two great scouts and their Pawnee battalion; the experiences of Frank J. North, and Luther H. North, pioneers in the great West, 1856-1882, and their defence of the building of the Union Pacific Railroad. Cleveland: The Arthur H. Clark Company, 1928. 5 p.l., (1)16-299 p., 1 map. 8°. HBC

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Hay, Thomas Robson. Hood's Tennessee campaign. New York: Walter Neale, 1929. xv(i), 17-272 p. illus. 8°. IKE

Howay, Frederick William. British Columbia; the making of a province. Toronto: The Ryerson Press [1928]. ix, 289 p. illus. 8°. HYE

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Beaufort, Jan Aernout Anne Hendrik de. Vijftig jaren uit onze geschiedenis, 1868-1918. Amsterdam: P. N. van Kampen & Zoon, 1928. 2 v. in 1. 8°. **GAO**

Bell, Kenneth Norman, and W. P. MORRELL, editors. Select documents on British colonial policy, 1830-1860; edited by Kenneth N. Bell and W. P. Morrell. Oxford: Clarendon Press, 1928. xlix, 610 p. 8°. **CX**

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Booth, C. D., and I. B. BOOTH. Italy's Aegean possessions. London: Arrowsmith [1928]. 323 p. illus. 8°. **BVX**

Cameron, E. Waller. The valley of the silent loch; illustrated from photographs by Amy N. Cameron. Selkirk: J. Lewis [1929?]. 125 p. illus. [2. ed.] 12°. **CRB**

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De Leeuw, Adèle Louise. The flavor of Holland, by Adèle de Leeuw, with illustrations and a map. New York, London: The Century Co. [cop. 1928.] xii, 344 p. illus. 8°. **GAI**

Durham, Mary Edith. Some tribal origins, laws and customs of the Balkans. Illustrated by the author. London: G. Allen & Unwin, Ltd. [1928.] 318 p. illus. 8°. **QPW**

Edwards, William Hayden. ...The tragedy of Edward VII; a psychological study. London: V. Gollancz, Ltd., 1928. 392 p. illus. 8°. **CLH**

Translated from the German.

Ellison, Grace. Turkey to-day. London: Hutchinson & Co., Ltd. [1928.] 288 p. illus. 8°. **BBP**

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Etherege, Sir George. The letterbook of Sir George Etherege, edited with an introduction and notes by Sybil Rosenfeld. Oxford: University Press, 1928. ix, 441 p. illus. 8°. **BTWA**

Fay, Sidney Bradshaw. The origins of the World War... New York: The Macmillan Company, 1928. 2 v. 8°. **BTZE**

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Fischel, Alfred. ... Das tschechische Volk. Breslau: Priebsch's Buchhandlung, 1928. 2 v. 8°. **FIH**

Fliche, Augustin. ... La chrétienté médiévale (395-1254). Paris: E. de Boccard, 1929. xviii, 8-501 p. 8°. (E. Cavaignac, editor. *Histoire du monde*. tome 7, [partie, 2.] **BTH**

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Gregory, John Duncan. On the edge of diplomacy; rambles and reflections, 1902-1928. London: Hutchinson & Co., Ltd. [1928.] 286 p. illus. 8°. **AN**

Gwynn, Denis Rolleston. The Irish Free State, 1922-1927. London: Macmillan & Co., 1928. xvi, 436 p. 8°. **CS**

Hammer, Simon Christian. Norway, by S. C. Hammer... with illustrations by A. Heaton Cooper. London: A. & C. Black Co. [1928.] vii, 196 p. illus. 8°. (Black's popular series of colour books.) **GGK**

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Hutton, Edward. A glimpse of Greece. New York: The Macmillan Co. [1928.] xii, 324 p. illus. 8°. **BVZ**

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Leroux, Gaston. L'agonie de la Russie blanche... Edité par Mme. G. Leroux. [Paris:] Hachette [cop. 1928]. 249 p., 2 l. illus. 12°. **GLO**

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Maynard, Sir Charles Clarkson Martin. The Murmansk venture. London: Hodder and Stoughton, Ltd. [1928.] xii, 322 p. illus. 8°. **BTZE**

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Pârvan, Vasile. Dacia; an outline of the early civilizations of the Carpatho-Danubian countries. Cambridge: University Press, 1928. x, 216 p. illus. 12°. **GIVB**

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Pierrefeu, Jean de. ...La saison diplomatique. Gènes (avril-mai 1922). Paris: F. Aubier [cop. 1928]. 260 p. 12°. **BTZT**

Polyakov, Vladimir. Eagles, black and white; the fight for the sea, by Augur [pseud.] ... London: D. Appleton and Co., 1929. 205 p. illus. 12°. **GME**

Riggs, Arthur Stanley. The Spanish pageant, by Arthur Stanley Riggs... Indianapolis: The Bobbs-Merrill Company [cop. 1928]. 8 p.l., 416 p. illus. 8°. **BXY**

Robertson, David, depute town clerk, and **MARGUERITE WOOD.** Castle and town; chapters in the history of the Royal Burgh of Edinburgh. Edinburgh: Oliver and Boyd, 1928. xi, 315 p. illus. 8°. **CR**

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Schneider, Herbert Wallace. Making the Fascist state. New York: Oxford University Press, 1928. xi, 392 p. 8°. **BWM**

Schuyler, Robert Livingston. Parliament and the British empire, some constitutional controversies concerning imperial legislative jurisdiction. New York: Columbia University Press, 1929. vi p., 1 l., 279(1) p. 8°. **CM**

Seton, Sir Bruce Gordon, bart., and J. G. ARNOT, editors. The prisoners of the '45, edited from the State Papers, by Sir Bruce Gordon Seton, Bt. of Abercorn... and Jean Gordon Arnot... v. 1. Edinburgh: T. and A. Constable, Ltd., 1928. 8°. (Scottish History Society. Publications. series 3, v. 13.) **CPA (Scottish)**

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Spiridovich, Aleksandr Ivanovich. ...Les dernières années de la cour de Tzarskoïe-Selo; traduit du russe par M. Jeanson... [v. 1. Paris: Payot, 1928. illus. 8°. (Collection de mémoires, études et documents pour servir à l'histoire de la guerre mondiale.) **GLO**

Tayler, Alistair Norwich, and HENRIETTA TAYLER. Jacobites of Aberdeenshire & Banffshire in the forty five. Aberdeen: Milne & Hutchison, 1928. ix, 464 p. illus. 8°. **CR**

Third Spalding Club, Aberdeen. Bibliographia Aberdonensis; being an account of books relating to or printed in the shires of Aberdeen, Banff, Kincardine, or written by natives or residents or by officers, graduates or alumni of the universities of Aberdeen, by James Fowler Kellas Johnstone... and Alexander Webster Robertson... [v. 1.] Aberdeen: Printed for the Third Spalding Club, 1929. illus. 4°. **CR (Third)**

Thompson, Dorothy. The new Russia. New York: H. Holt and Co. [cop. 1928.] vii, 330 p. illus. 8°. **GLP**

Thornton, Gladys Amy. A history of Clare, Suffolk. Cambridge [Eng.]: W. Heffer & Sons, Ltd., 1928. xxii, 244 p. illus. 8°. **CO**

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Tunstall, Brian. Admiral Byng and the loss of Minorca. London: P. Allan & Co., Ltd. [1928.] x, 293 p. illus. 8°. **VYD**

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Chapman, Herbert Owen. The Chinese revolution, 1926-27; a record of the period under Communist control as seen from the Nationalist capital, Hankow. London: Constable & Co., Ltd., 1928. xvii, 310 p., 1 map. 8°. **BEG**

Chatterji, Bijan Raj. Indian cultural influence in Cambodia. [Calcutta:] University of Calcutta, 1928. xv, 303 p. illus. 8°. ***OWH**

Forbes, William Cameron. The Philippine Islands. Boston and New York: Houghton Mifflin Company, 1928. 2 v. 8°. **BFF**

Hādī Hasan. A history of Persian navigation...with a foreword by Sir Muhammad Iqbal... London: Methuen & Co., Ltd. 1928. xiv, 176 p. illus. sq. 4°. ***OMR**

Hasluck, Frederick William. Christianity and Islam under the sultans, by the late F. W. Hasluck... Edited by Margaret M. Hasluck... Oxford: Clarendon Press, 1929. 2 v. illus. 8°. ***OGC**

Ikbal Ali Shah. Westward to Mecca; a journey of adventure through Afghanistan, Bolshevik Asia, Persia, Iraq & Hijaz to the cradle of Islam. London: H. F. & G. Witherby, 1928. 224 p. illus. 8°. **BD**

Koran. English. The Koran (Qur'ān); translated by E. H. Palmer; with an introduction by R. A. Nicholson. London: Oxford University Press [1928]. xix, 551 p. 16°. (The world's classics.) ***OGD**

Lammens, Henri. Islām; beliefs and institutions. Translated from the French by Sir E. Denison Ross... London: Methuen & Co., Ltd. [1929.] ix, 256 p. 12°. ***OGC**

Le Coq, Albert von. Buried treasures of Chinese Turkestan; an account of the activities and adventures of the second and third German Turfan expeditions, by Albert von Le Coq...translated by Anna Barwell. London: G. Allen & Unwin, Ltd. [1928.] 180 p. illus. 8°. ***ONV**

Nansen, Fridtjof. Armenia and the Near East. London: G. Allen & Unwin, Ltd. [1928.] 324 p. illus. 8°. **BBY**

Philby, Harry St. John Bridger. Arabia of the Wahhabis. London: Constable & Co., Ltd., 1928. xiv, 422 p. illus. 8°. ***OFW**

Prasad, Beni. Theory of government in ancient India (post-Vedic)... With a foreword by Arthur Berriedale Keith... Allahabad: The Indian Press, Ltd., 1927. vii, 399 p. 8°. ***OKQ**

Roy, Sarat Chandra. Oraon religion & customs. With an introduction by Colonel T. C. Hodson... Ranchi, 1928. xv, 418, ix p. illus. 8°. ***OLS**

Rutter, Eldon. The holy cities of Arabia. London: G. P. Putnam's Sons, Ltd. [1928.] 2 v. illus. 8°. ***OFW**

Sarma, S. K. Towards Swaraj; being the exposition of a scheme of responsible government. Madras: M. K. S. Iyengar, 1928. vi, 428 p. 12°. **BGN**

Saunders, Kenneth James. The Gospel for Asia; a study of three religious masterpieces: Gita, Lotus, and Fourth Gospel. London: Society for Promoting Christian Knowledge, 1928. xv, 245 p. 8°. ***OAS**

T'ang Leang-li. The foundations of modern China, with a preface by Wang Ching-wei... London: N. Douglas [1928]. x, 290 p. tables. 8°. **BEG**

Thompson, Reginald Campbell, and R. W. HUTCHINSON. A century of exploration at Nineveh. London: Luzac & Co., 1929. 146 p., 9 plans, 7 pl. 8°. ***OCN**

Trevelyan, Sir Ernest John. Hindu law as administered in British India. Third edition revised by the author and T. Chatterji... Calcutta: Thacker, Spink & Co., 1929. cxvii, 714 p. 8°. ***OLZ**

Usamah ibn Munkidh. The autobiography of Ousama... Translated with an introduction and notes by George Richard Potter. London: G. Routledge & Sons, Ltd., 1929. xii, 301 p. illus. 8°. (Broadway medieval library.) ***OFS**

CIRCULATION STATISTICS FOR THE MONTH OF AUGUST, 1929

BRANCHES	CIRCULATION		NEW	VOLUMES
	HOME USE	READERS OF	REGISTRA-	ACCES-
	(VOLUMES)	REFERENCE	TIONS	SIONED
BOOKS				
MANHATTAN				
Central Building :				
Central Circulation -----	50,782	-----	1,016	610
Children's Room -----	1,966	1,957	34	34
Extension Division -----	68,070	-----	1,321	1,655
Library for the Blind -----	2,997	-----	3	219
East Broadway, 33 -----	7,331	1,269	53	57
East Broadway, 192 -----	20,669	2,570	188	604
Rivington street, 61 -----	13,202	-----	110	613
East Houston street, 388 -----	15,734	1,370	116	391
Leroy street, 66 -----	7,038	1,522	88	219
8th street, 135 Second avenue -----	10,312	1,610	87	175
10th street, 331 East -----	20,490	734	162	357
13th street, 251 West -----	8,226	2,066	123	160
23rd street, 228 East -----	7,336	3,283	105	128
23rd street, 209 West -----	11,025	3,127	177	167
36th street, 303 East -----	6,162	927	73	105
40th street, 457 West -----	5,836	610	61	53
50th street, 564 Lexington avenue -----	7,665	1,799	81	218
51st street, 742 Tenth avenue -----	7,400	358	98	130
58th street, 121 East -----	9,444	700	206	470
58th " 121 " Music Library -----	2,444	2,076	-----	179
67th street, 328 East -----	10,866	2,198	115	361
69th street, 190 Amsterdam avenue -----	10,990	1,365	170	167
77th street, 1465 York avenue -----	12,747	1,449	77	414
79th street, 222 East -----	14,184	2,126	140	364
81st street, 444 Amsterdam avenue -----	13,275	2,857	235	380
96th street, 112 East -----	19,891	1,503	178	159
100th street, 206 West -----	16,760	617	249	339
110th street, 174 East -----	16,864	978	141	589
115th street, 203 West -----	12,346	1,720	124	756
124th street, 9 West -----	11,435	1,369	152	228
125th street, 224 East -----	5,875	350	89	240
125th street, 518 West -----	14,500	2,040	175	564
135th street, 103 West -----	9,855	1,518	180	375
145th street, 503 West -----	17,138	1,967	156	498
St. Nicholas avenue, 1000 -----	14,787	1,468	158	805
179th street, 535 West -----	22,236	3,683	268	333
THE BRONX				
140th street, 321 East -----	16,971	3,878	209	475
Morris avenue, 910 -----	13,746	1,999	164	663
160th street, 761 East -----	26,731	3,670	262	527
Southern Boulevard, 877 -----	33,722	3,528	1,345	1,659
168th street, 78 West -----	13,206	2,278	212	1,000
169th street, 610 East -----	30,084	3,262	184	327
176th street and Washington avenue -----	28,610	3,162	448	1,569
Bainbridge avenue, 2556 -----	35,658	2,325	656	311
Kingsbridge avenue, 3041 -----	7,630	1,085	88	112
RICHMOND				
St. George -----	8,674	1,711	121	108
Port Richmond -----	11,404	1,499	142	186
Stapleton -----	7,408	2,860	74	129
Tottenville -----	4,313	522	32	29
Totals -----	746,035	84,965	10,646	20,211

PRINCIPAL DONORS IN AUGUST, 1929

	VOLS.	PMS.		VOLS.	PMS.
Abbott, Miss Arletta M.	1		Kamal, Son Altesse le Prince		
Adler, Elmer (1 print)			Youssouf	1	
Advertising Club of New York	1		Keren Kayemeth Leisrael, Ltd. . .	3	
America Press	1		Kip, A. L.	7	
American Civil Liberties Union . .	13	28	Lebel, Léon		4
American College of Surgeons . .	1		Lee & Kirby, Inc.	1	
American Jewish Committee . . .	1		Leiper, Henry Smith	1	
American Photographic Publishing			Lyon. Chambre de Commerce . . .	1	
Company	1		Mabbott, Dr. Thomas Ollive (1		
Authors' League of America Me-			manuscript)		
morial Library	26	2	Mackintosh, H. B.	1	1
Bakatel, Oliver S.	1		Manchester, England. Council . .	3	
Bartlett, William W.	1		Mantell, C. L.		7
Black Sun Press		2	Meighen, Lt.-Col. Frank Stephen .		1
Batthey, George M., Jr.	1		Michigan Historical "Commission" .	1	
Berry, George Keys	1		Modern Foreign Language Study . .	2	
Bing & Grøndahls Porcellaensfabrik	1		Morris, Mrs. John (6 periodicals) .	9	
Bowling, Mrs. Edgar R., and Miss			München-Gladbach. Statistisches		
Alice Emory	1		Amt.	1	
Brown, Dr. Arthur Selwyn (1			Musser, Benjamin		3
periodical)	44	275	Nadele, Mrs. M.	34	
Brownstone, Ezekiel A. M.	2		Nankai University Committee on		
Catholic University of America . .	20	11	Social and Economic Research . .	1	
Cleveland Orchestra	1		National Council of Women of		
Concilium Bibliographicum		10	Canada	3	
Converse Memorial Library	1		National Research Council		1
Czechoslovakia. Soukromý Archiv a			Nationaltheater		1
Knihovna	14	8	New South Wales. Government		
Darmstadt, Germany. Der Oberbür-			Printer	1	
germeister	1		New York Southern Society . . .	1	
Dastur, Kaikhushru Jamshedji . .		2	Nobel, Harry	6	
del Monte, Siméon	1		North West Surrey Joint Town		
Dillon, Arthur Orison		1	Planning Committee		1
Du Fournet, Vice-Amiral Dartige .	1		Observatoire Météorologique du		
Fachblatt der Maler		2	Séminaire St. Martial	9	
Faure, Blattman & Co.	5	1	"On-To-The-Bay" Association of		
Ferrarin, Arturo (Colonnello) . . .	1		Canada		1
Flanagan, Luke	1		"Orbis Verlag"		1
Flick, Alexander C.		1	Parley, Norman I. (2 sheets) . . .		2
Galston, Hon. Clarence G.	5		Peru. Ministerio de Hacienda . .	8	
Genthe, Arnold		2	Porto Rico. Department of the		
Goldzier, Mrs. Julia (3 periodicals;			Interior	3	
1 sheet)	5	3	Recht, Pierre	1	
Great Britain. Patent Office . . .	20		Schultze, Dr. Ernst	1	1
Greece. Ministère de l'Economie			Schuster, Edward (199 periodicals;		
Nationale. Direction de la Statis-			2,400 newspapers)	3	3
tique	2		See, A. B.	1	
Gregg, John Robert		2	Southern Rhodesia. Legislative		
Hawaii. The Secretary of the Terri-			Assembly (1 sheet)	2	28
tory	1		Swales, Mrs. Bradshaw Hall (26		
Hazard, Miss Caroline		1	periodicals; 39 folders; MS. ma-		
Henderson, John	2		terial)	460	37
Hudson's Bay Company		4	Talcott, Miss M. G.		1
Implement & Tractor Trade Jour-			Tromsø Museums Biblioteket . . .	1	
nal	1		Tunis. Direction Générale des		
India Office. Secretary of State for			Finances	1	
India	1		Turkey. Ministre des Finances . .	1	
Instituto de Valencia de Don Juan .	1		Westphal (Franz) Verlag	5	
International Anesthesia Research			Wolff, T. J.	30	2
Society	1		Worthington, Judge Glenn H. . .		2
Johnck and Seeger		1			

PUBLICATIONS OF THE NEW YORK PUBLIC LIBRARY

(Now in Print)

HISTORY AND GUIDES

	PRICE
History of The New York Public Library, by H. M. Lydenberg. 1923	\$2.00
Handbook of The New York Public Library	.25
Central Building Guide	.05
The New York Public Library; How It Was Formed, What It Is Doing	Free
Questions About Your Library (General Information about the Library)	Free
For Sightseers. Central Building	Free

PERIODICALS

Annual Report of The New York Public Library. (A limited number are given free upon request.)

Bulletin of The New York Public Library. Published monthly. Chiefly devoted to the Reference Department. Bibliography, news of the Library, reprints of manuscripts, descriptions of new accessions. \$1.00 a year; current single numbers for 10 cents. Back numbers at advanced rates.

Branch Library Book News. A selected list of new additions to the Circulation Department, with other lists and articles. Published monthly, except in July and August. For sale at the Branches and at the Inquiry Desk. 2 cents a copy; 25 cents a year, postpaid.

New Technical books. A selected list of books on industrial arts and engineering, recently added to the Library. Published quarterly. 25 cents a year, postpaid.

Municipal Reference Library Notes. Published weekly except during July and August, for circulation among the officials and employees of the City of New York. Price: \$2.00 a year; 5 cents a copy. Apply at Room 512, Municipal Building.

LIST OF BOOKS IN THE LIBRARY RELATING TO VARIOUS TOPICS, TEXTS PRINTED FROM MANUSCRIPTS OWNED BY THE LIBRARY, ETC.

REFERENCE DEPARTMENT

	PRICE		PRICE
Alice in Wonderland; the manuscript and its story. 1928	.10	Avery Collection, Handbook of. 1901. 84 p.	.50
Almanacs, A list of New York, 1694-1850. 1921	1.00	Avery Collection, Handbook of—Supplement: Additions of Prints, 1901-1920. 1921	.15
American Historical Prints, Early Views of American Cities, etc. 1927	.50	Avesta and Romani, by Albert Thomas Sinclair. 1916	.05
American Inter-oceanic Canals. A list of references. 1916	.30	Beaumarchais, Editions of, in New York City. 1925	.15
Armenia and the Armenians. A list of references. 1919	.30	Behind the Magician's Curtain—An Exhibition of Books and Prints Relating to Conjuring and Magic—by John Mulholland (illustrated) 1928	.05
Article of Faith, An, by Hiller C. Wellman. 1919	.05	Berlin and the Prussian Court in 1798. From a ms. journal of Thomas Boylston Adams. 1916	.15
Assyria and Babylonia. A list of references. 1918	.45	Billings, Dr. John Shaw, Memorial Meeting in honor of the late. 1913	.10
Astor Library, Catalogue of the. 8 volumes. Sewed. Per volume	5.00	City Planning and Allied Topics, Select list of works relating to. 1913	.15
Automobile Tires. A list of references. 1923	.10		

	PRICE		PRICE
ington, General George, Calendar of Messages & Proclamations of, 1777-1781. 1927	.25	Geology, Mineralogy and Palæontology of New Jersey, List of works on. 1916	.15
olor Photography. 1924	.75	Ginsburg's Massoretic Bible. 1928	.05
olumbus. Letter of Columbus on the discovery of America. Facsimile of the pictorial edition, with a new and literal translation, and a complete reprint of the four oldest Latin editions. 1892. Cloth	.50	Greenwood, John, an American-born Artist. 1927	.25
ommencement Addresses by Stephen H. Olin and Carl B. Roden. 1924	.10	Gypsies in Carniola and Carinthia, by Albert Thomas Sinclair. 1917	.05
ne Compensations, by Asa Don Dickinson. 1922	.05	Gypsies of Monastir, by Rev. Lewis Bond. 1917	.05
cruise of the U. S. Brig <i>Argus</i> in 1813. Journal of Surgeon James Inderwick. 1917	.10	Henry George and the Single Tax. 1926	.50
claration of Independence, Exhibition commemorating the 150th anniversary of the adoption of. 1927	.25	Historical Printing Club, Publications of the. (List and prices furnished upon application.)	
eterioration in Book Materials, Causes and Prevention of. 1929	.15	Historical Prints and Early Views of American Cities. Catalogue of exhibition. 1917	.05
ne Development of Scenic Art and Stage Machinery (Revised, with Additions) 1928	2.50	Holcroft, Thomas, A Bibliography of. By Elbridge Colby. 1922	.60
ickens, Charles, His Life as Traced by His Works, by C. W. Cavanaugh. Early American editions of the works of Charles Dickens, by H. L. Edgar and R. W. G. Vail. 1929	.15	Holt, John—Printer and Postmaster. 1920	.10
arly American Children's Books, 1682-1840. 1927	.05	The Hornbook. 1927	.15
arly Library Development in New York State. By George Watson Cole. 1927	.10	Hudson, Henry, The Hudson River, Robert Fulton and Steam Navigation, List of prints, books, manuscripts, etc., relating to. 1909	.30
gypt, Ancient. Sources of information. 1925	2.75	A Hundred Years of Grand Opera in New York, 1825-1925. A record of performances. 1927	1.00
gypt, Modern. A List of References to Material in The New York Public Library. 1929	2.50	The Illustrated Book. Notes on an exhibition. 1919	.15
mmet Collection of Mss., Prints, etc., Catalogue of. Sheets. 1900	5.00	Illustrated Books of the Past Four Centuries. A record of the exhibition in 1919. 1920	.50
no Collection of New York City Views. 1925	.75	Inks, Chemistry and Manufacture of. 1926	.75
hiopica and Amharica. 1928	.75	Insulating Oil. A list of references. 1927	.50
ederal Reserve Banking System. A bibliography. 1928	.50	Inventory of the Rensselaerswyck Manuscripts. 1924	.25
rst Year of Printing in New-York, May, 1693 to April, 1694. By Wilberforce Eames. 1928	.50	Irvingiana, The Hellman Collection of. 1929	.10
atboating on the Yellowstone, 1877. By Fred G. Bond. 1925	.25	Irvingiana, The Seligman Collection of. 1926	.25
illard, Edwin White, In Memory of. 1929	Free	Isle de Bourbon (Réunion) Documents, 1701-1710. Printed from the original manuscript in the Library. 1909	.20
ardens & Gardening. A selected list of books. 1927	.10	The Jewish Division in the Reference Department, 1927. 1928	Free
		Jewish Life in Oriental Countries. A list of books and manuscripts exhibited. 1927	.10
		Journalism. A bibliography. 1924	2.00
		Joys of Librarianship, by Arthur E. Bostwick. 1918	.05

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Kennan Collection. By Abraham Yarmolinsky. 1921	.10	The Petworth Manuscript of "Grace Dieu" or "The Pilgrimage of the Soul"; an English illuminated manuscript of the fifteenth century. 1928	.15
Latin-American Periodicals Current in the Reference Department. 1920	.05	The Photostat in Reference Work. 1925	.15
Letters of American Clergymen, 1711 to 1860. 1917	.05	The Pilgrim's Progress; John Bunyan, his Life and Times. An exhibition. 1929	.15
Letters of American Physicians and Surgeons. 1919	.05	The Pitcairn Bible. 1924	.15
The Librarian Himself, by H. L. Koopman. 1916	.05	Provençal Literature & Language. 1925	3.00
Librarian as a Unifier, by Andrew Keogh. 1915	.05	Remington, Frederic, Chronicler of the Vanished West. 1929	.10
Library School of The New York Public Library. Register, 1911-1926. 1929	1.00	Robinson Locke Dramatic Collection. 1925	.10
Library Tonic, by George Parker Winship. 1917	.05	Romani and Dard, by George F. Black. 1916	.05
Livre du Petit Artus. Illuminated manuscript presented by Mr. Edward S. Harkness. 1928	.15	Russian, other Slavonic and Baltic Periodicals. A list of. 1916	.15
Lycanthropy. A list of works. 1920	.05	Schoolroom Decoration. A list of references. 1917	.05
Macpherson's Ossian and the Ossianic Controversy. A contribution towards a bibliography. 1926	.25	Scotland. A list of works. 1916	3.00
The Manuscript Division, by Victor Hugo Paltsits. 1915	.15	Seal-Prints and a Seal-Paste-Print of the Fifteenth Century, by T. O. Mabbott. 1928	.20
Melville, Herman, Family Correspondence of. In The Gansevoort-Lansing Collection. 1929	.50	Shakespeareana, Catalogue of Exhibition of, compiled by Henrietta C. Bartlett. 1916	1.00
Music Publishers in New York City before 1850. A directory. 1917	.10	The Soul of the Library, by J. I. Wyer. 1923	.05
Nationalization of Coal Mines. 1920	.10	Spalding Baseball Collection. 1922	.20
Naval Architecture and Shipbuilding. A list of references. 1919	.20	The Spencer Collection of Illustrated Books. 1928	1.00
The New York Parks Exhibition. 1928	.05	Starches. A list of references. 1927	2.00
The New York Public Library and the Business Man. 1923	Free	Stauffer Print Collection, by Charles Allen Munn. 1916	.05
The New York Tercentenary. An exhibition of the history of New Netherland, 1524-1674. 1926	.30	Storage Batteries. A list of references, 1900-1915. 1915	.15
Newspapers and Official Gazettes, Checklist of. 1915	1.85	Submarines. A list of references. 1918	.35
Numismatics. List of works. 1914	.65	Superstructures, by W. N. C. Carlton. 1918	.05
One Hundred Notable American Engravers. 1928	.50	A Thirteenth Century Illuminated Manuscript, by Dr. Hanns Swarzenski. 1928	.15
Opera Plots, Index to. 1927.	.75	Tilden, S. J. Letters and Literary Memorials, edited by John Bigelow. 2 v. 1908	6.00
Orlando Gibbons Tercentenary, by Jeffrey Mark. 1926	.15	Tilden, S. J. Writings and Speeches, edited by John Bigelow. 2 v. 1885	6.00
Oxy-Acetylene Welding. List. 1914	.15	Timothy Dexter and His "Pickle for the Knowing Ones." 1922	.15
Pageants in Great Britain and the United States. A list of references. 1916	.15	Tolstoi in English, 1878-1929. A list of works. 1929	.20
Paintings, Catalogue of, in the picture galleries of the Library. 1927	.10		
Persia, List of works relating to. 1915	.50		

	PRICE		PRICE
o Nebraska in '57. A Diary of Erastus F. Beadle. 1923	2.00	What did Macaulay Say About America? Text of four letters to Henry S. Randall. 1925	.40
orpedoes. A list of references. 1917	.30	What's the Matter with the Public Library? By E. L. Pearson. 1922	Free
ransliterations from Hebrew Characters. 1929	Free	Why They Came to the Library. 1920	Free
War Memorials. A list. 1919	.05	Winthrop, Theodore. Bibliographical notes on, by Elbridge Colby. 1917	.05
War Taxation, 1914-1917. A list of references. 1917	.05	Winthrop Books, Plates of the, by Elbridge Colby. 1918	.05
Washington Eulogies. A checklist. 1916	.25		

MUNICIPAL REFERENCE LIBRARY

Publications to be obtained at the Municipal Reference Library, Room 512, Municipal Building

	PRICE
uide Posts on the Road to Health; A list of books	.10
Teaching Citizenship via the Movies. A survey of civic motion pictures	.10
Visualizing Citizenship	.15
What to Read on New York City Government. A list of references	.05

CIRCULATION DEPARTMENT

Publications to be obtained at any Branch Library, or from the Chief of the Circulation Department, Fifth Avenue and Forty-second Street. Publications given free unless otherwise stated.

Branch Library Book News. *See* Periodicals.

LISTS OF BOOKS FOR ADULTS

ids to the Traveler in Spain, with a List of Recent Spanish Books. 1929. 10 cents

ltman Collection

ooks of Interest to Women Voters

atalogue of Books for the Blind in Braille. Grades One, Two and Three. November, 1921; Supplements, September, 1927, May, 1928

atalogue of Books for the Blind in Braille. Grade One-and-a-Half. June, 1929

atalogue of Books for the Blind in the Moon type. November, 1921; Supplement, February, 1928

atalogue of Music for the Blind. Music Scores in the American Braille and New York Point Types. Supplement

atalogue of Music Scores in the Braille Type. July, 1922; Supplement, October, 1926

children's books suggested as holiday gifts. 1927, 1928

airy Tales for Grown-up Readers

ist of Piano Music

ilitary Training

"The New York of the Novelists"

Plays of Thirteen Countries

Poetry of the Supernatural

Polish Book List

Romans à Clef; A List of Novels with Characters based on Real Persons. 2 cents

Sailor's Yarns. 2 cents

Stories. A list of stories to tell and to read aloud. 25 cents

Stories of Romance and Imagination

Stories of the Sea. 5 cents

Wanderers and Vagabonds

LISTS FOR CHILDREN

Favorite Stories of the Library Reading Clubs

Journeys to Foreign Lands

LISTS FOR ADULTS AND CHILDREN

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Sea and Shore

The Shakespearian Festival

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CENTRAL BUILDING, Fifth Ave. & 42nd St., contains general administrative offices of the whole system, all Divisions of the Reference Department, and the Central Circulation Branch, Central Children's Room, Library for the Blind, and the Extension Division.

MUNICIPAL REFERENCE BRANCH, Room 512, Municipal Building.

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33 East Broadway. (Chatham Square.)
 192 East Broadway. (Seward Park.)
 61 Rivington Street.
 388 E. Houston St. (Hamilton Fish Park.)
 66 Leroy Street. (Hudson Park.)
 135 Second Avenue. (Ottendorfer.)
 331 East 10th Street. (Tompkins Square.)
 251 West 13th Street. (Jackson Square.)
 228 East 23rd Street. (Epiphany.)
 209 West 23rd Street. (Muhlenberg.)
 303 East 36th Street. (St. Gabriel's Park.)
 457 West 40th Street.
 564 Lexington Avenue. (Cathedral.)
 742 Tenth Ave. Near 51st St. (Columbus.)
 121 East 58th Street.
 328 East 67th Street.
 190 Amsterdam Avenue. (Riverside.)
 1465 York Avenue. Near 78th St. (Webster.)
 222 East 79th Street. (Yorkville.)
 444 Amsterdam Avenue. (St. Agnes.)
 112 East 96th Street.
 206 West 100th Street. (Bloomingdale.)
 174 East 110th Street. (Aguilar.)
 203 West 115th Street.
 116th Street and Amsterdam Avenue. Room 108a, Columbia University Library. (Columbia Sub-branch.)
 9 West 124th Street. (Harlem Library.)
 224 East 125th Street.
 518 West 125th Street. (George Bruce.)
 103 West 135th Street.

503 West 145th Street. (Hamilton Grange.)
 1000 St. Nicholas Ave. (Washington H'ghts.)
 535 West 179th Street. (Fort Washington.)
 215 Sherman Ave. (Inwood Sub-branch.)

THE BRONX

321 East 140th Street. (Mott Haven.)
 761 East 160th Street. (Woodstock.)
 877 Southern Boulevard. (Hunt's Point.)
 910 Morris Avenue. (Melrose.)
 78 West 168th Street. (High Bridge.)
 610 East 169th Street. (Morrisania.)
 1205-7 Manor Ave. (Clason's Pt. Sub-branch.)
 1866 Washington Avenue. (Tremont.)
 2019 University Ave. (Univ. Hts. Sub-branch.)
 879 East 180th St. (West Farms Sub-br'ch.)
 707 Rhinelander Ave. (Van Nest Sub-branch.)
 2556 Bainbridge Avenue. (Fordham.)
 3041 Kingsbridge Avenue. (Kingsbridge.)
 3917 White Plains Road. (Williamsbridge Sub-branch.)
 325 City Island Ave. (City Island Sub-br'ch.)

RICHMOND

5 Central Ave., Staten Island. (St. George.)
 75 Bennett Street. (Port Richmond.)
 85 State St. (West New Brighton Sub-br'ch.)
 132 Canal Street. (Stapleton.)
 7430 Amboy Road. (Tottenville.)
 56 Gifford's Lane. (Gr't Kills Sub-branch.)
 155 Third Street. (New Dorp Sub-branch.)
 (Hughes Memorial Library.)



CAPT. JOSEPH BRANT
(Thayendanegea)

From original painting by Charles Willson Peale,
in Independence Hall, Philadelphia